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26

DIE CONCHYLIEN

DES

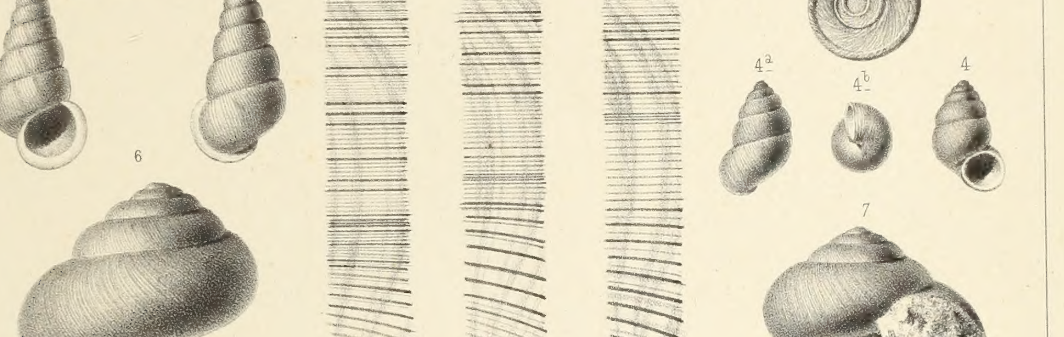
MAINZER TERTIÄRBECKENS.

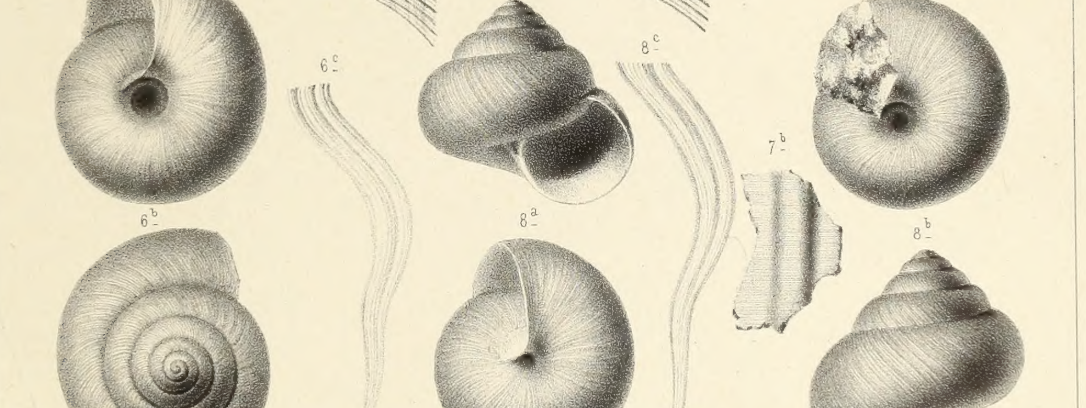
VON

DR. FRIDOLIN SANDBERGER.
PROFESSOR DER MINERALOGIE AM GROSSHERZOGLICHEN POLYTECHNICUM ZU KARLSRUHE

TAFELN.

WIESBADEN:
KREIDEL UND NIEDNER, VERLAGSHANDLUNG.
1858.
bis
1862.

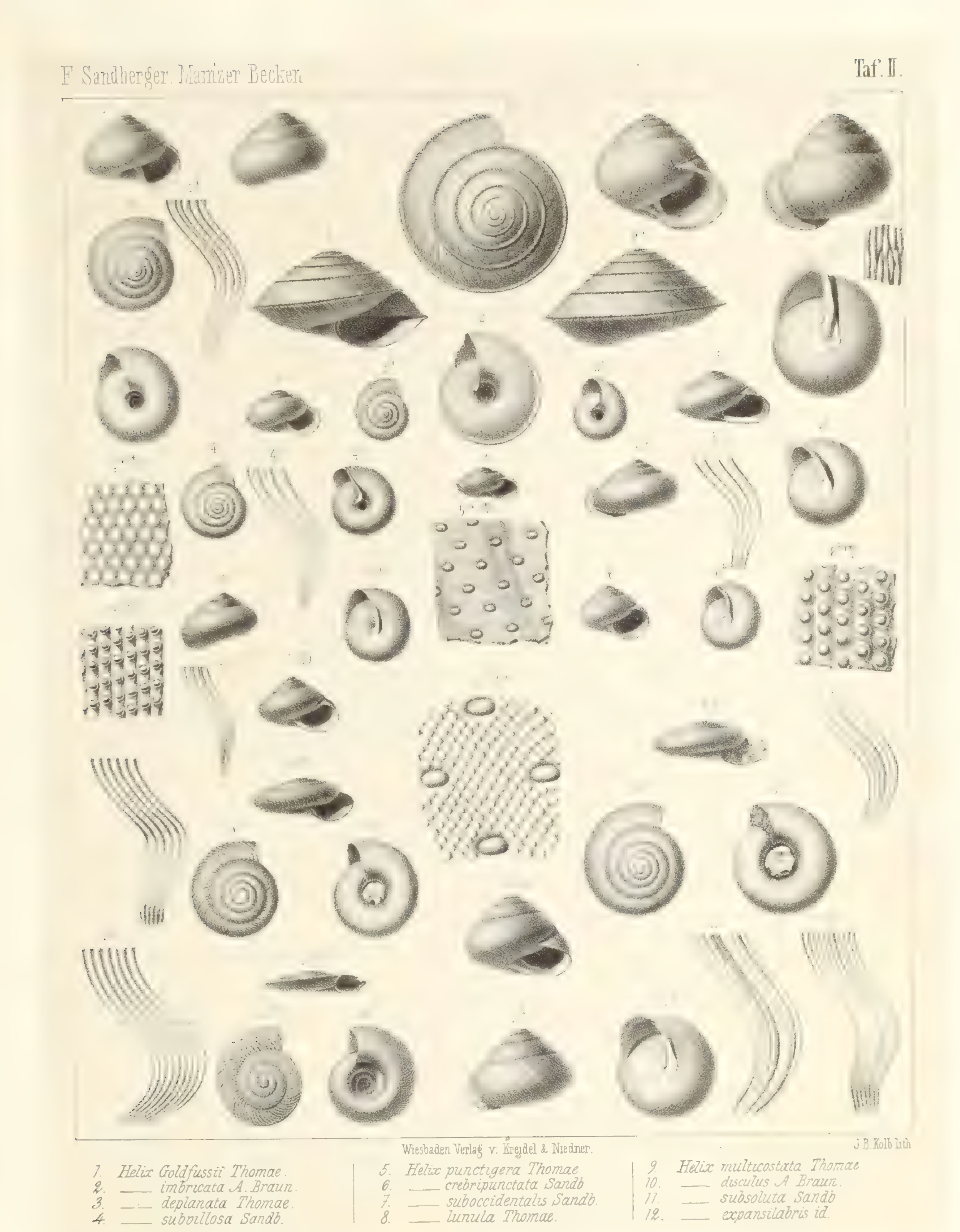




Wiesbaden, Verlag v. Kreidel & Niedner. A. Kolb lith.

1. *Strophostoma tricarinatum* M. Braun.
2. *Craspedopoma utriculosum* Sandb.
3. *Cyclostoma bisulcatum* v. Ziethen.
4. *Cyclostoma Pupa* A. Braun
5. *Pomatias Labellum* Thomae sp.
6. *Helix subverticillus* Sandb.
7. —— ———— ead. var.
8. —— *stenotrypta* A. Braun.

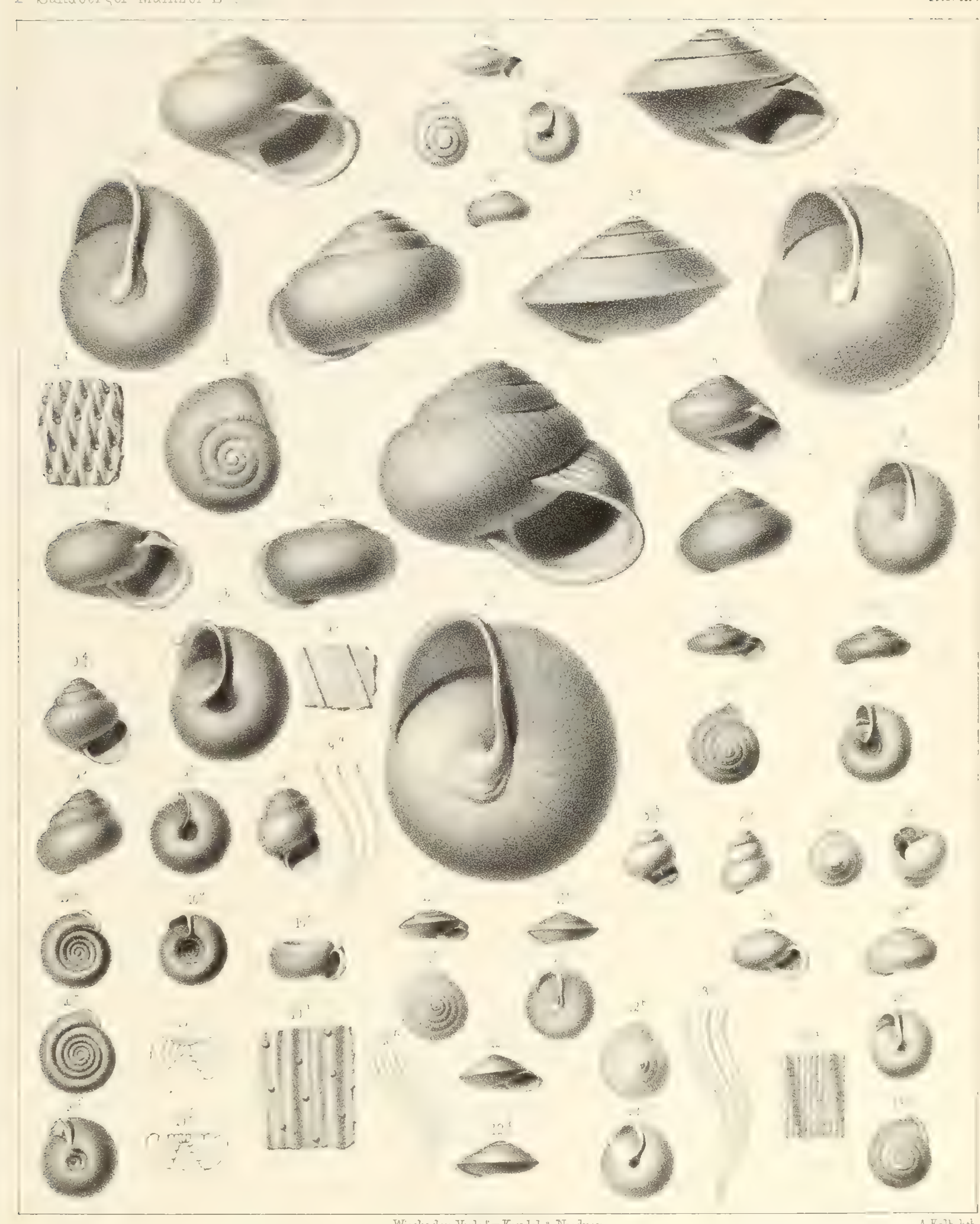




Wiesbaden Verlag v. Kreidel & Niedner. J. B. Kolb lith.

1. *Helix Goldfussii Thomae.*
2. —— *imbricata A. Braun.*
3. —— *deplanata Thomae.*
4. —— *subvillosa Sandb.*
5. *Helix punctigera Thomae*
6. —— *crebripunctata Sandb*
7. —— *suboccidentalis Sandb.*
8. —— *lunula Thomae.*
9. *Helix multicostata Thomae*
10. —— *disculus A. Braun.*
11. —— *subsoluta Sandb*
12. —— *expansilabris id.*





Wiesbaden, Verlag v. Kreidel & Niedner. A. Kolb lith.

1. Helix pomiformis A. Braun.
2. —— Mattiaca Stein.
3. —— Rahtii A. Braun.
4. —— lepidotricha A. Braun.
5. Helix subcarinata A. Braun.
6. —— pulchella Müll.
7. —— uniplicata A. Braun
8. —— pupula A. Braun
9. —— paludinaeformis A. Braun.
10. Helix involuta Thomae
11. —— phacodes id.
12. —— sublenticula Sandb.
13. —— osculum Thomae typus.

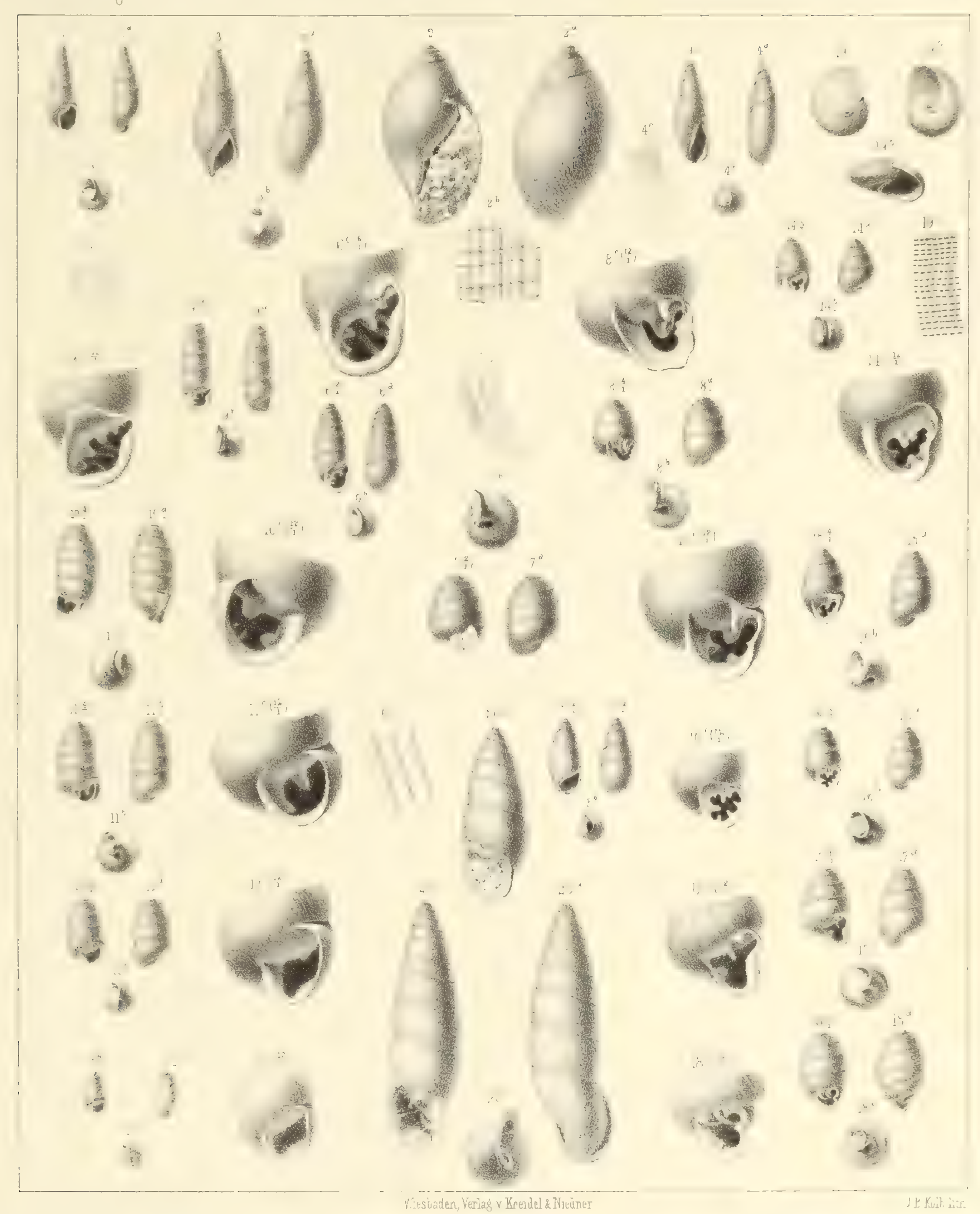




Wiesbaden, Verlag v. Kreidel & Niedner.

1. *Helix osculum Thomae var. depressa*
2. —— *affinis id.*
3. —— *Moguntina Desh. var major*
4. *ead. var minor*
5. *Helix Moguntina Desh. var.*
6. *ead. var. splendidaeformis.*
7. *Helix deflexa A. Braun.*
8. *Helix hortulana*
9. —— *oxystoma id.*
10. —— *subsulcosa id.*
11. —— *Ramondi Al. Brongn.*





Wiesbaden, Verlag v. Kreidel & Niedner — J. P. Kolb lith.

1. *Bulimus gracilis Thomae*
2. *Glandina cancellata Sandb.*
3. ——— *subsulcosa Thomae*
4. ——— *Sandbergeri id.*
5. ——— *lubricella A. Braun*
6. *Pupa variabilis Drap.*
7. ——— *subconica Sandb.*
8. *Pupa lamellidens Sandb.*
9. ——— *cylindrella A. Braun*
10. [illegible]
11. ——— *quadrig.* [illegible]
12. ——— *retusa id.*
13. ——— *cryptodus id.*
14. *Pupa didymodus A. Braun*
15. ——— *palustris Turton.*
16. ——— *fissidens Sandb.*
17. ——— *trigonostoma A. Braun*
18. ——— *tiarula id.*
19. *Vitrina intermedia Reuss*
20. *Clausilia bulimiformis A. Braun.*





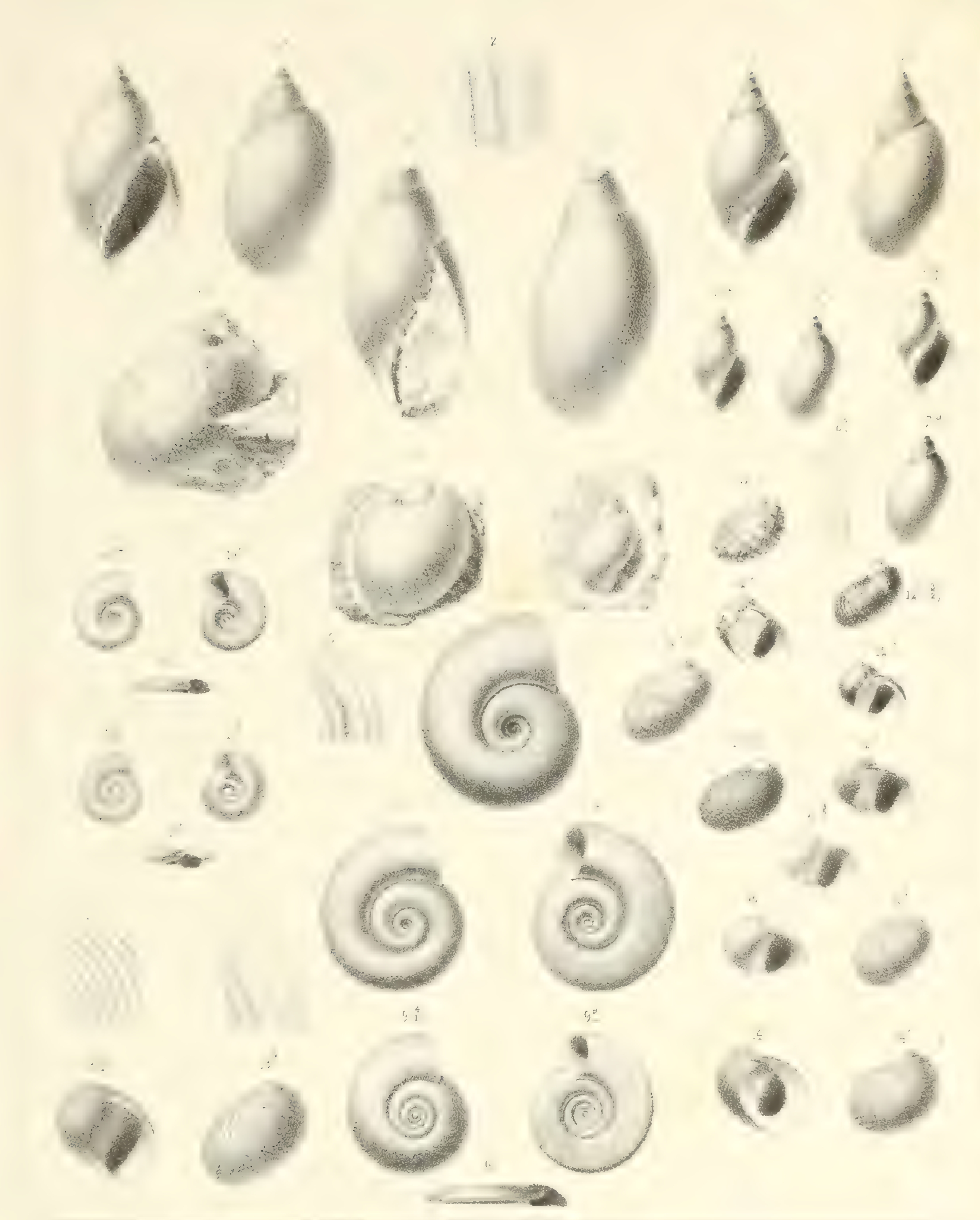
Lith. Anst. v. J. Lehnhardt in Mainz

Wiesbaden, Verlag von Kreidel & Niedner

1. Pupa suturalis A. Braun sp.
2. —— subtilissima
3. Truncatella microceras A. Braun sp.
4. Carychium nanum Sandb.
5. —— antiquum A. Braun.
6. Nematura pupa Nyst.
7. —— lubricella A. Braun sp.
8. Litorinella obtusa Sandb.
9-9.ᵍ —— acuta Drap. sp.
9.ʰ-9.ʳ —— inflata Faujas sp.
10. Paludina obtusa Sandb.

Valvata deflexa Sandb.
Leptopoma inornatum Sandb.
[illegible]
Melanopsis callosa A. Braun.
Melania Escheri Al. Brongn.

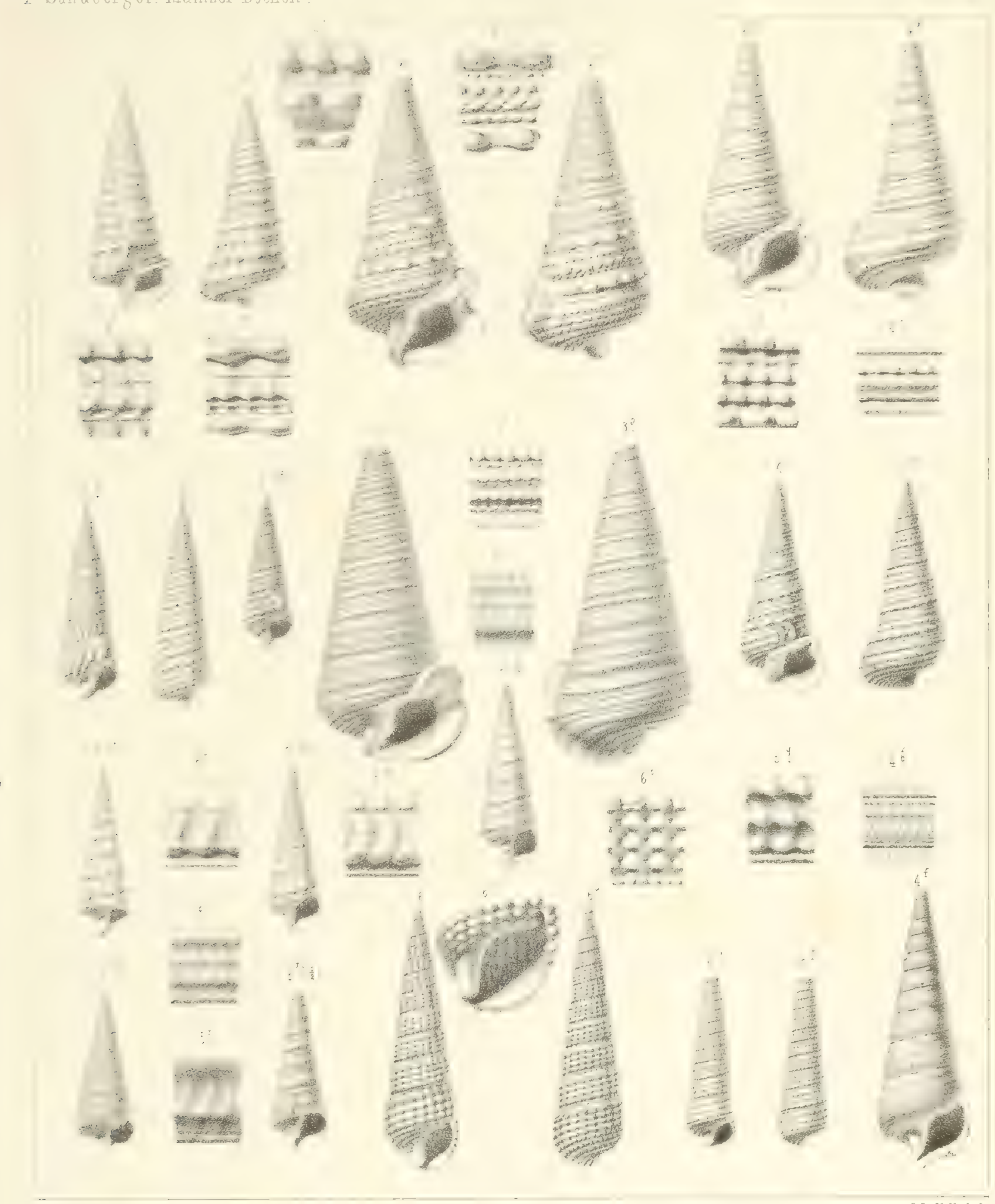




Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Verlag v. Kreidel & Niedner. J. B. Kolb lith.

1. *Limneus pachygaster Thomae*
2. ——— *subpalustris id.*
3. ——— *cretaceus id.*
4. ——— *pachygaster id. juv.*
5. ——— *bullatus v. Klein.*
6. *Limneus minor Thomae.*
7. ——— *acutilabris Sandb.*
8. *Planorbis solidus Thomae.*
9. ——— *declivis A. Braun.*
10. ——— *laevis v. Klein.*
11. *Planorbis semicostatus Sandb.*
12. a, d, e, f, g. *Neritina fluviatilis Lin. sp.*
12. b, c ——— *callifera Sandb.*
13. ——— *fulminifera Sandb.*
14. ——— *rhenana Thomae*

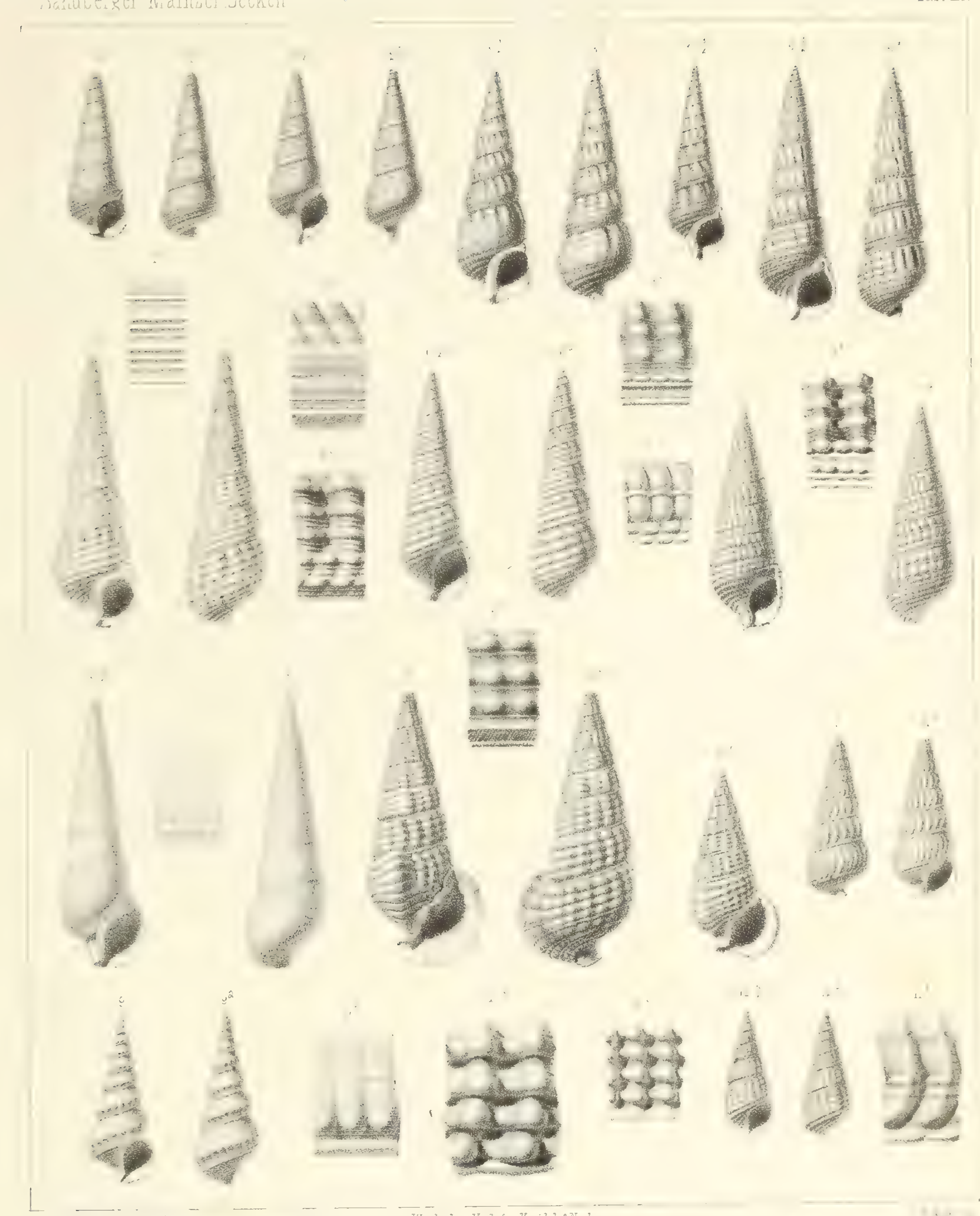




Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Verlag von Kreidel & Niedner. J. B. Kolb. lith.

1. *Cerithium conjunctum Desh.*
2. ——— *margaritaceum Brocchi var. calcaratum Grat.*
3. *id. var. moniliforme Grat.*
4. *Cerithium submargaritaceum A. Braun.*
5. ——— *Lamarckii Desh.*
6. ——— *plicatum Lam. var. papillatum Sandb.*

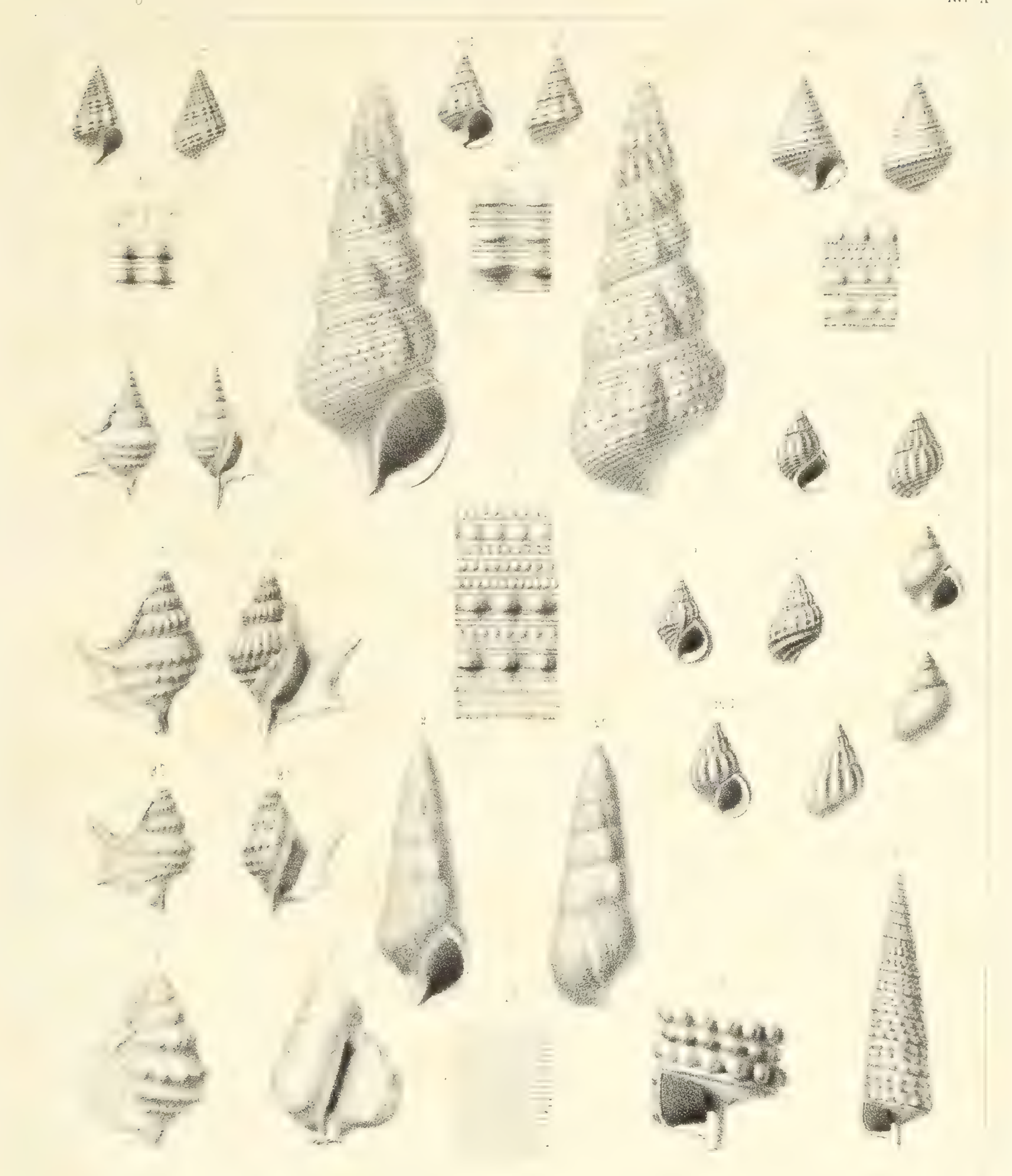




Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Verlag v. Kreidel & Niedner

1. *Cerithium plicatum Lam. var. enodosum*
2, 3. *id. var. Galeottii Nyst.*
4. *id. — intermedium*
5, 6. *Cerithium plicatum var. multinodosum*
7. *id. plicatum Lam. var. pustulatum*
8. *id. laevissimum v. Schloth. sp.*
9. *id. dissitum Desh.*
10. [illegible]
11. [illegible]
12. [illegible]





v. J. Lennhardt in Mainz

Wiesbaden, Verlag v. Kreidel & Niedner.

Cerithium dentatum Defr.
— subvaricosum A. Braun.
— Boblayei Desh.
— conoidale Lam.

Cerithium perversum L.
Chenopus acutidactylus Sandb.
— tridactylus A. Braun.
— speciosus Schloth.

Rissoa succincta Nyst.
— Duboisii id.



Lith. Anst. v. J. Lehnhardt in Mainz

Wiesbaden, Verlag v. Kreidel & Niedner

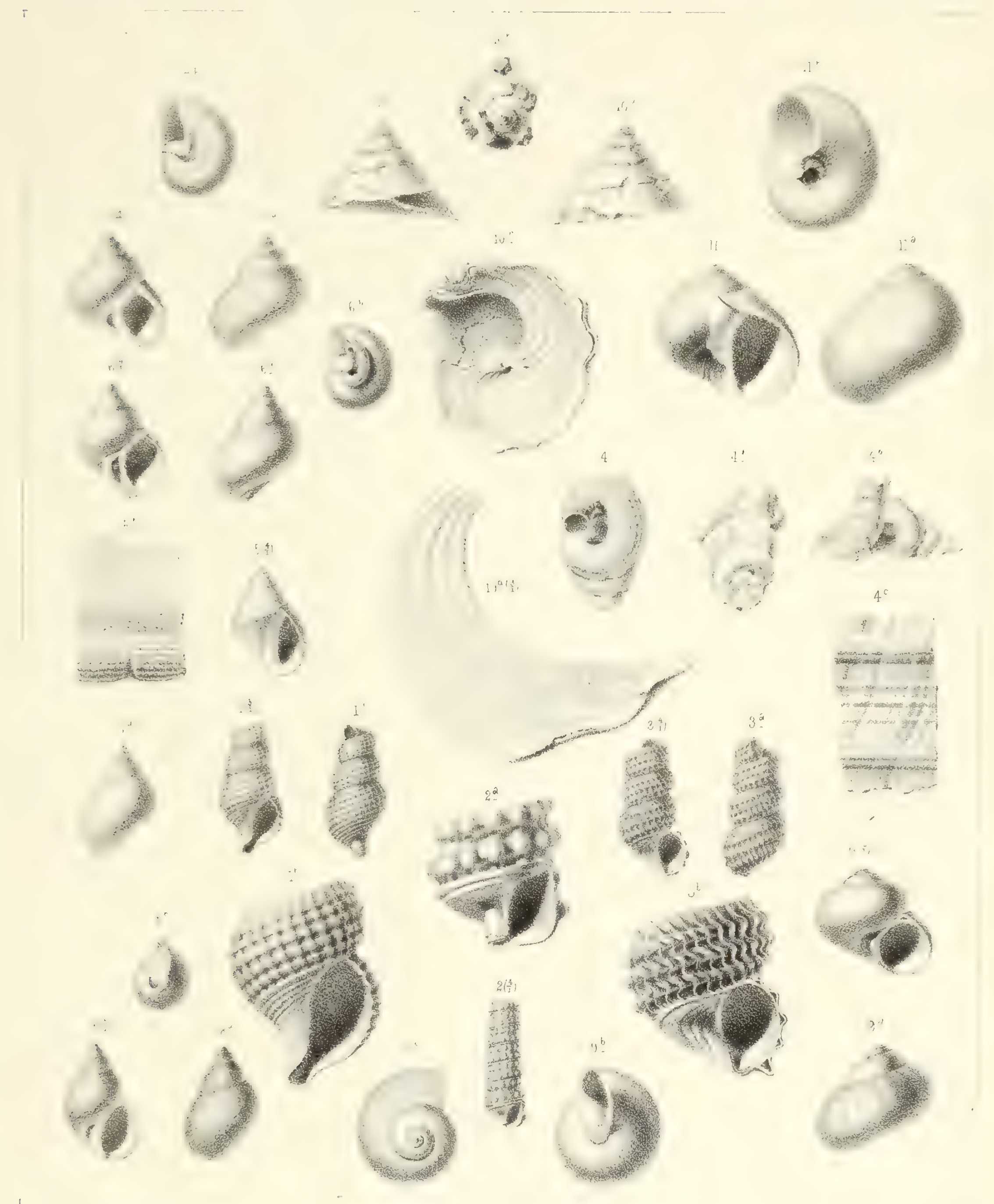
1. *Scalaria pusilla Phil.*
2. ——— *crassitexta Sandb.*

4. ——— *recticosta Sandb.*
5. *Phasianella multicingulata Sandb.*

6. *Trochus incrassatus Desh.*
——— *rhenanus Merian*
——— *sexangularis Sandb.*
——— *amblyconus id.*
——— *margaritula Merian*
——— *trochlearis Sandb.*

Turbo alterninodosus Sandb.
——— *cancellato-costatus id.*
——— *alterninodosus id.*
Solarium bimoniliferum id.
Adeorbis decussatus id.

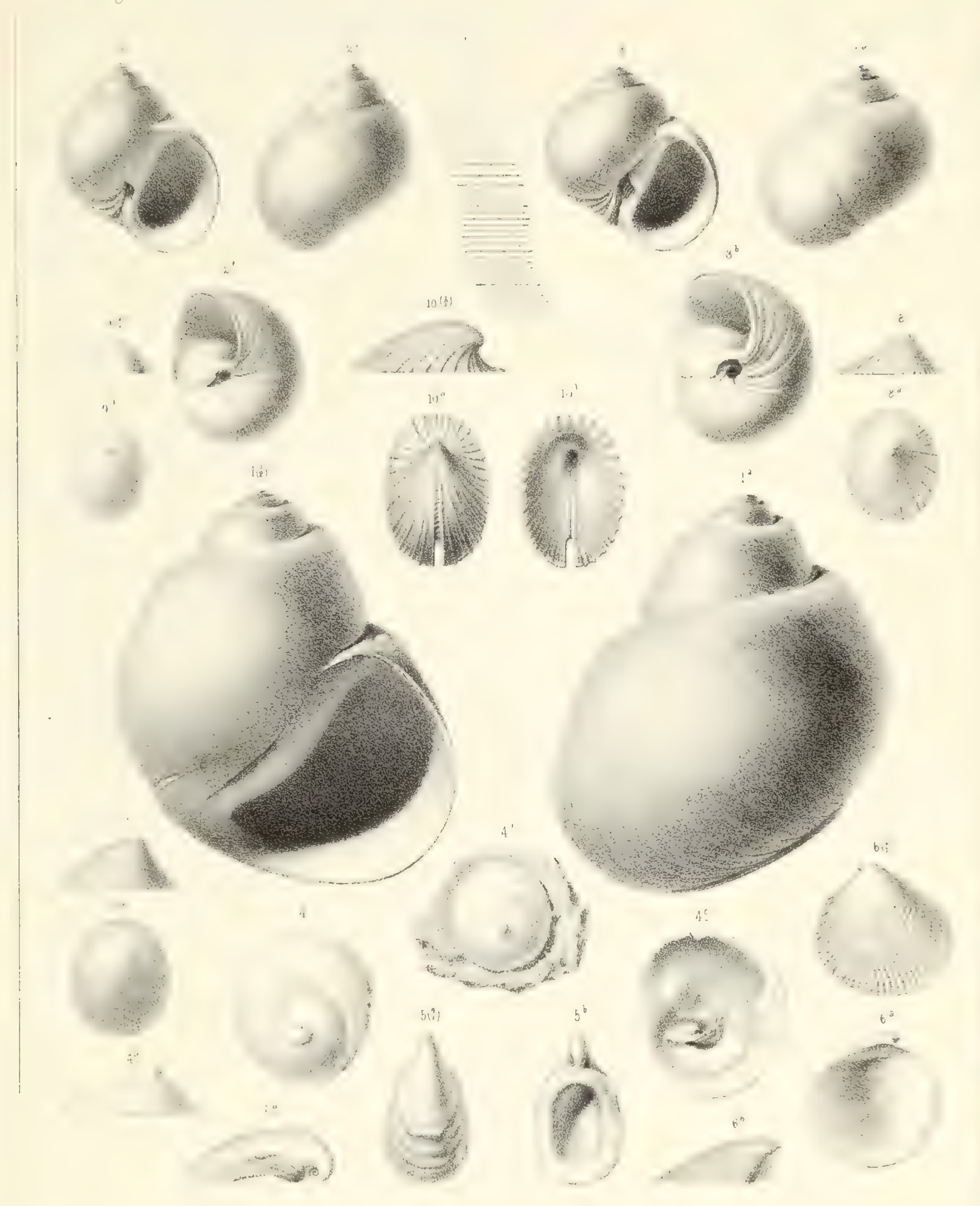




Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Verlag v. Kreidel & Niedner J. B. Kolb lith.

1. *Cerithium evaricosum* Sandb.
2. ——— *bimoniliferum* id.
3. *Turritella crispula* id.
4. *Vermetus imbricatus* id.
5. *Litorina obtusangula* Sandb.
6. *Lacuna eburnaeformis* id.
7. ——— *subeffusa* id.
8. *Lacuna labiata* Sandb.
9. *Cyclostremma nitidum* id.
10. *Xenophora Lyelliana* Bosq.
11. *Natica hantoniensis* Sow.

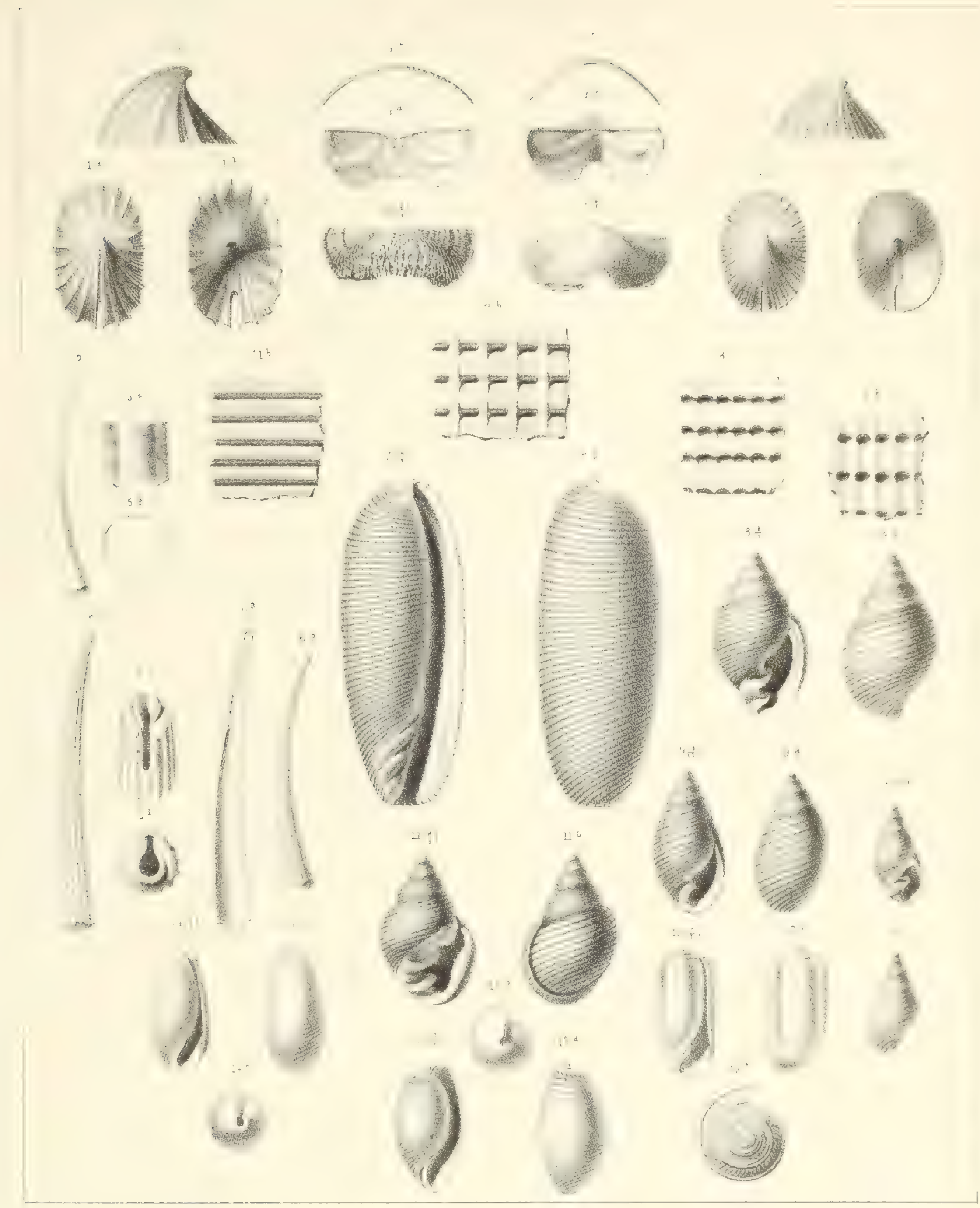




Lith Anst v J Lehnhardt in Mainz — Wiesbaden, Verlag v Kreidel & Niedner — J.B Kolb lit

1. *Natica crassatina Lam.*
2. ——— *micromphalus Sandb.*
3. ——— *conomphalus id.*
4. *Calyptraea striatella Nyst.*
5. *Capulus navicularis Sandb*
6. ——— *transversus id*
7. *Patella moguntina A. Braun*
8. *Patella alternicostata Sandb*
9. ——— *excentrica id*
10. *Emarginula oblonga id.*



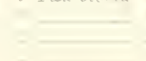


Lith Anst v J Lehnhardt in Mainz. Wiesbaden, Verlag v. Kreidel & Niedner. J B Kolb lith.

1. *Emarginula Schlotheimi* Bronn
2. ——— *conica* Sandb
3. *Chiton tenuissimus* id.
4. ——— *virgifer* id.
5. *Dentalium Sandbergeri* Bosquet
6. *Dentalium Kickxii* Nyst
7. *Volvaria multicingulata* Sandb
8. *Tornatella Nystii* Duchastel
9. ——— *limneiformis* Sandb
10. ——— *acuta* id
11. *Ringicula acuta*. Sandb.
12. *Bulla nitens* id
13. ——— *turgidula* Desh
14. ——— *conoidea* id

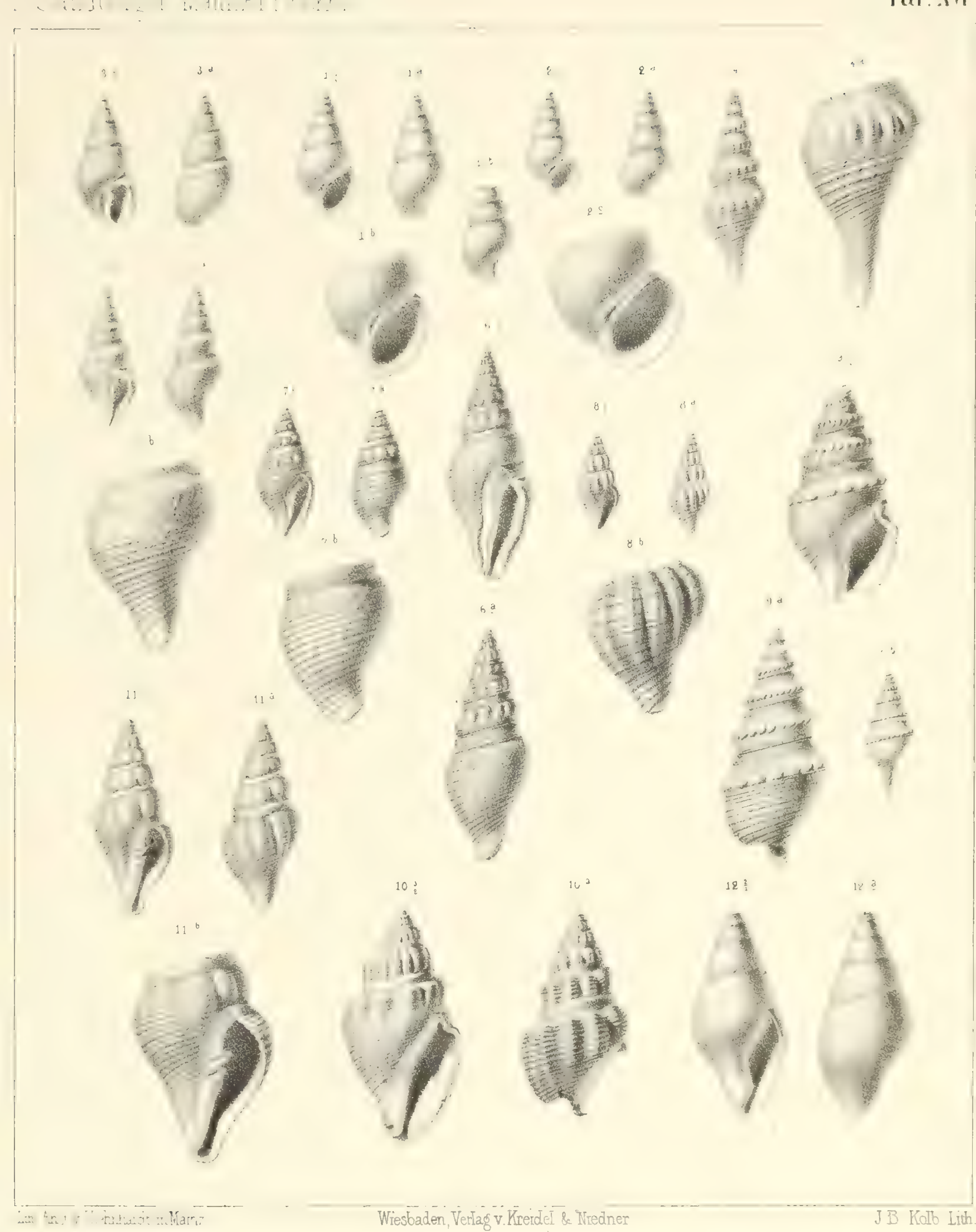


Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Verlag v. Kreidel & Niedner.



1. *Odontostoma acutiusculum A. Braun sp.*
2. ——— *lineolatum Sandb.*
3. *Conus symmetricus Des.*
4. *Turbonilla subulata Merian sp.*
5. *Turbonilla digitalis Sandb.*
6. *Eulima acicula id.*
7. *Cancellaria Brauniana Nyst.*
8. ——— *ringens Sandb.*
9. ——— *minuta A. Braun.*
10. *Pleurotoma* [illegible]
——— [illegible]
——— [illegible]
——— *Duchastel*[illegible]



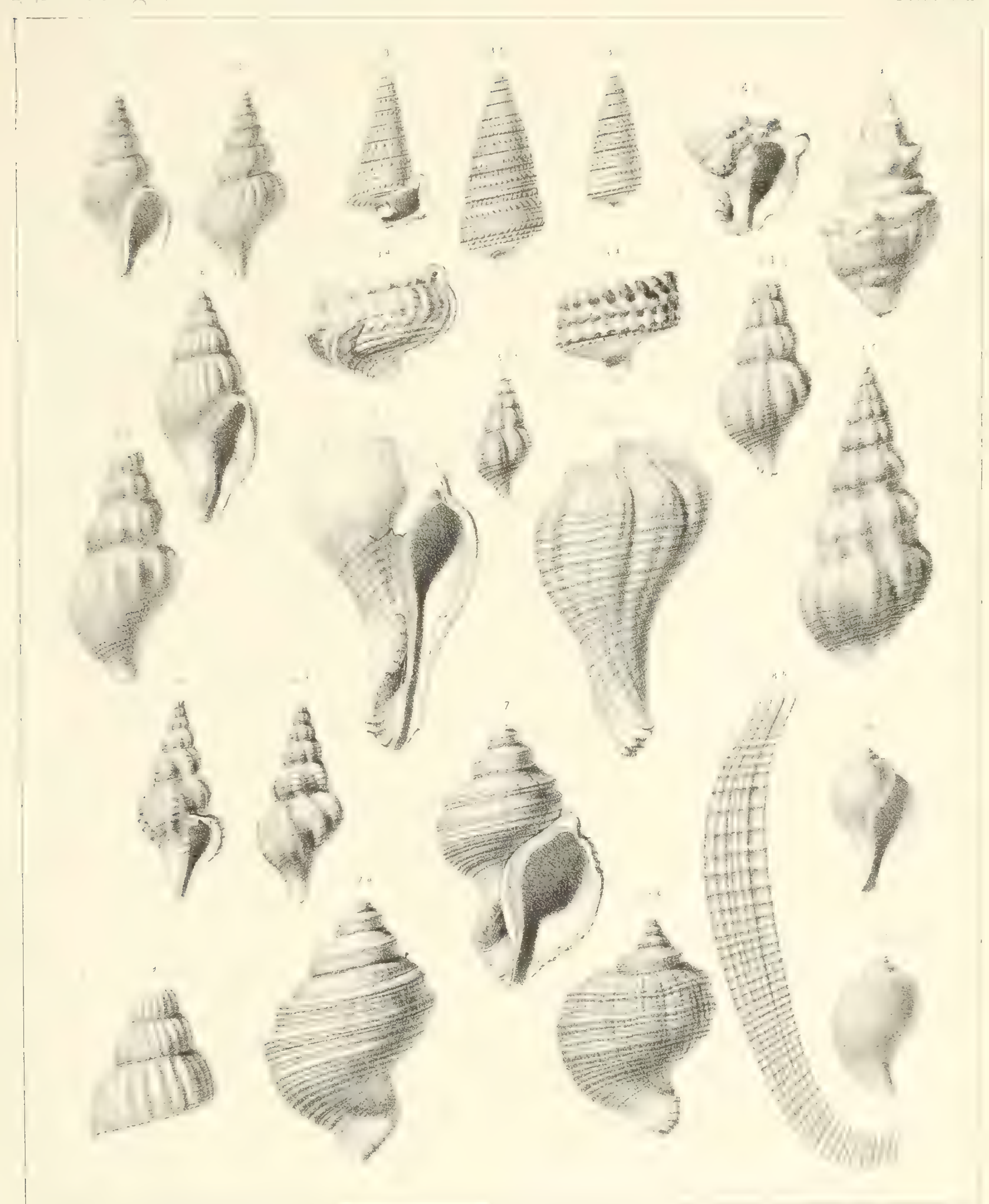


Wiesbaden, Verlag v. Kreidel & Niedner

J. B. Kolb Lith.

1. Litorinella Draparnaudi Nyst sp.
2. ——— loxostoma Sandb.
3. Odontostoma scalare Sandb.
4. Pleurotoma Selysii De Kon. var.
5. Pleurotoma Parkinsoni Deshayes.
6. ——— obliquinodosa Sandb.
7. ——— subconoidea Sandb.
8. ——— scalariaeformis Sandb.
9. Pleurotoma subdenticulata Münst.
10. [illegible]
11. Borsonia Delucii Nyst.
12. Columbella inornata Sandb.

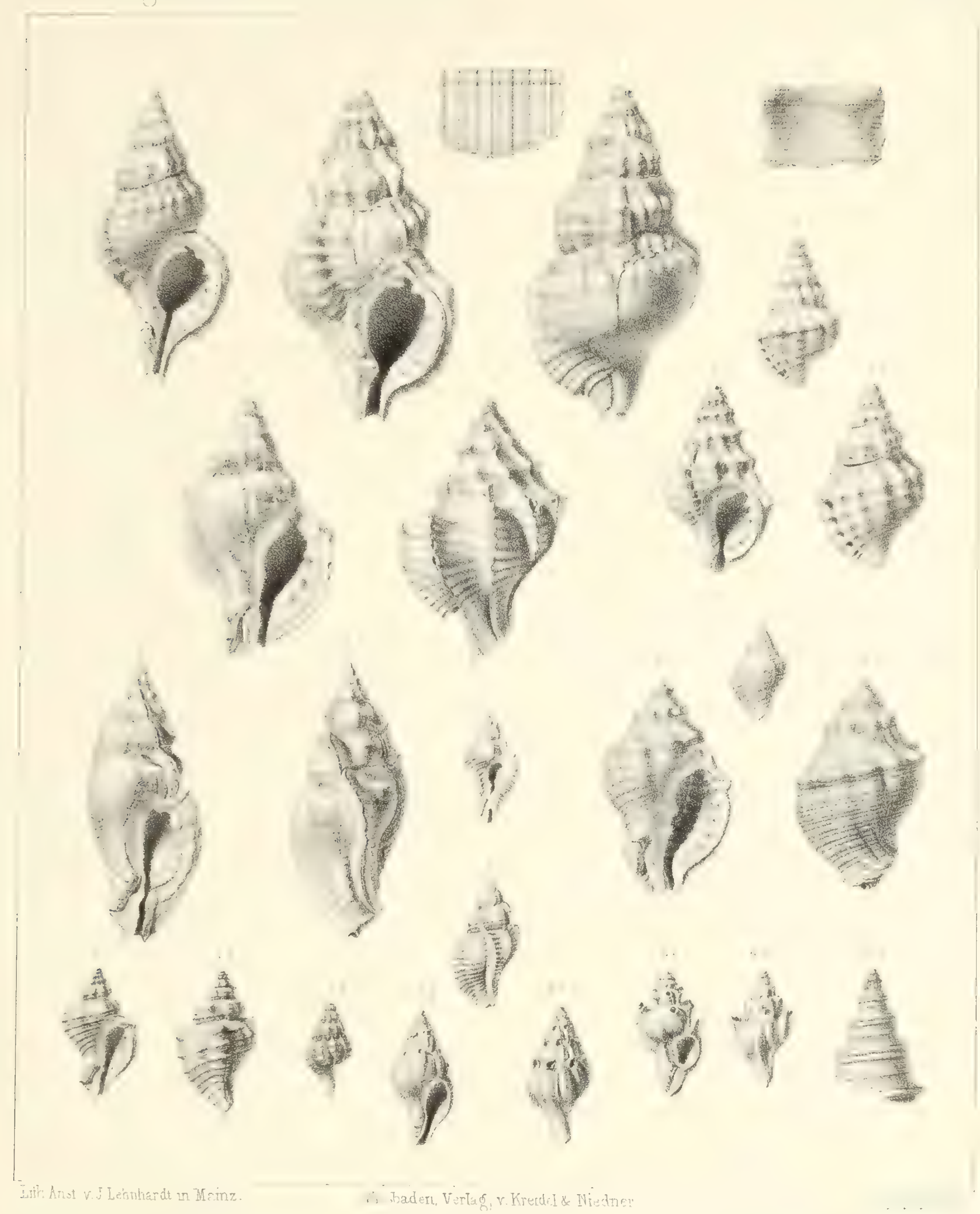




Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden. Verlag v. Kreidel & Niedner. J. B. Kolb Lith.

1. *Fusus convexus Sandb.*
2. ——— *columbelliformis. id.*
3. *Cerithium elegans Desh.*
4. *Turbinella scalaris Sandb.*
5. *Fusus elongatus Nyst*
6. ——— *retrorsicosta Sandb.*
7. *Trophon cancellatus Thomae sp.*





Lith. Anst. v. J. Lehnhardt in Mainz. [illegible]baden, Verlag, v. Kreidel & Niedner

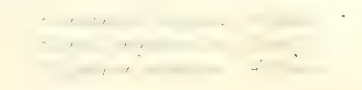
1. *Tritonium flandricum de Kon.*
2. *——— foveolatum Sandb.*
3. *Murex Deshayesii Nyst*
4. *——— Lamarckii Grat.*
5. *Murex ornatus. Grat*
6. *——— conspicuus A. Braun.*
7. *——— sp.*
8. *Tiphys [illegible]*
9. *——— fistulosus Braun sp.*
10. *Cuma monoplex Desh sp.*
11. *Pleurotoma bicingulata Sandb*



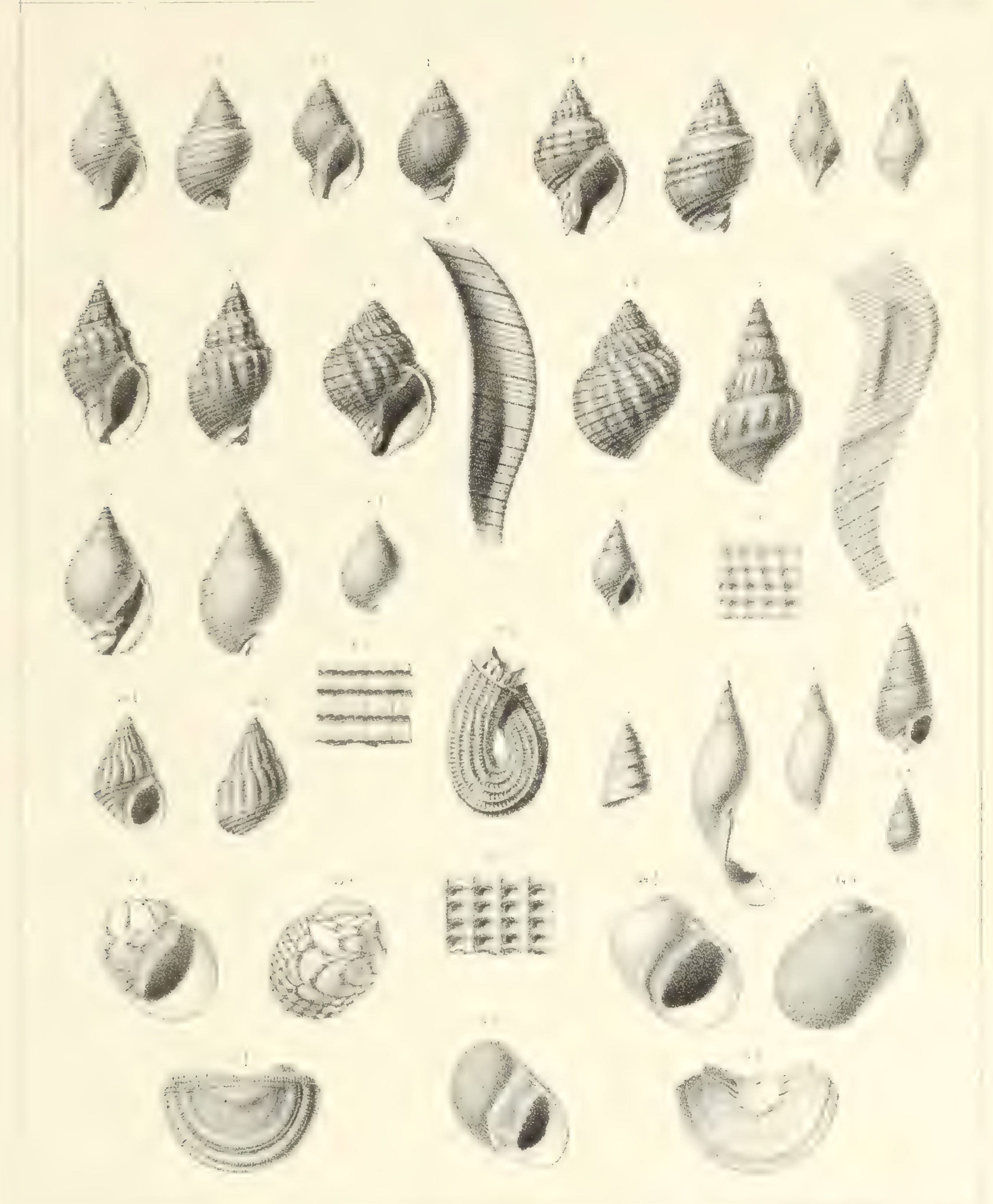
Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Verlag. v. Kreidel & Niedner.

1. *Fusus Waelii Nyst var.*
2. ——— *multisulcatus id.*
3. *Mitra semiplicata Sandb.*

4. *Mitra perminuta A. Braun*
5. *Voluta modesta Merian*
6. ——— *Rathieri Hébert*







Lith. Anst. v. J. Lehnhardt in Mainz.

1 Buccinum Cassidaria Bronn
2 unіseriale Sandb.
3 sp.
4 Cancellaria evulsa Brand. sp.
5 [illegible] speciosus Schloth. sp.
6 [illegible]ella globosa [illegible]
7 [illegible]cuta Sandb.
8 Sandbergeria cancellata Nyst
9 Vermetus cristatus Sandb.
10 Rissoa [illegible]
11 [illegible]

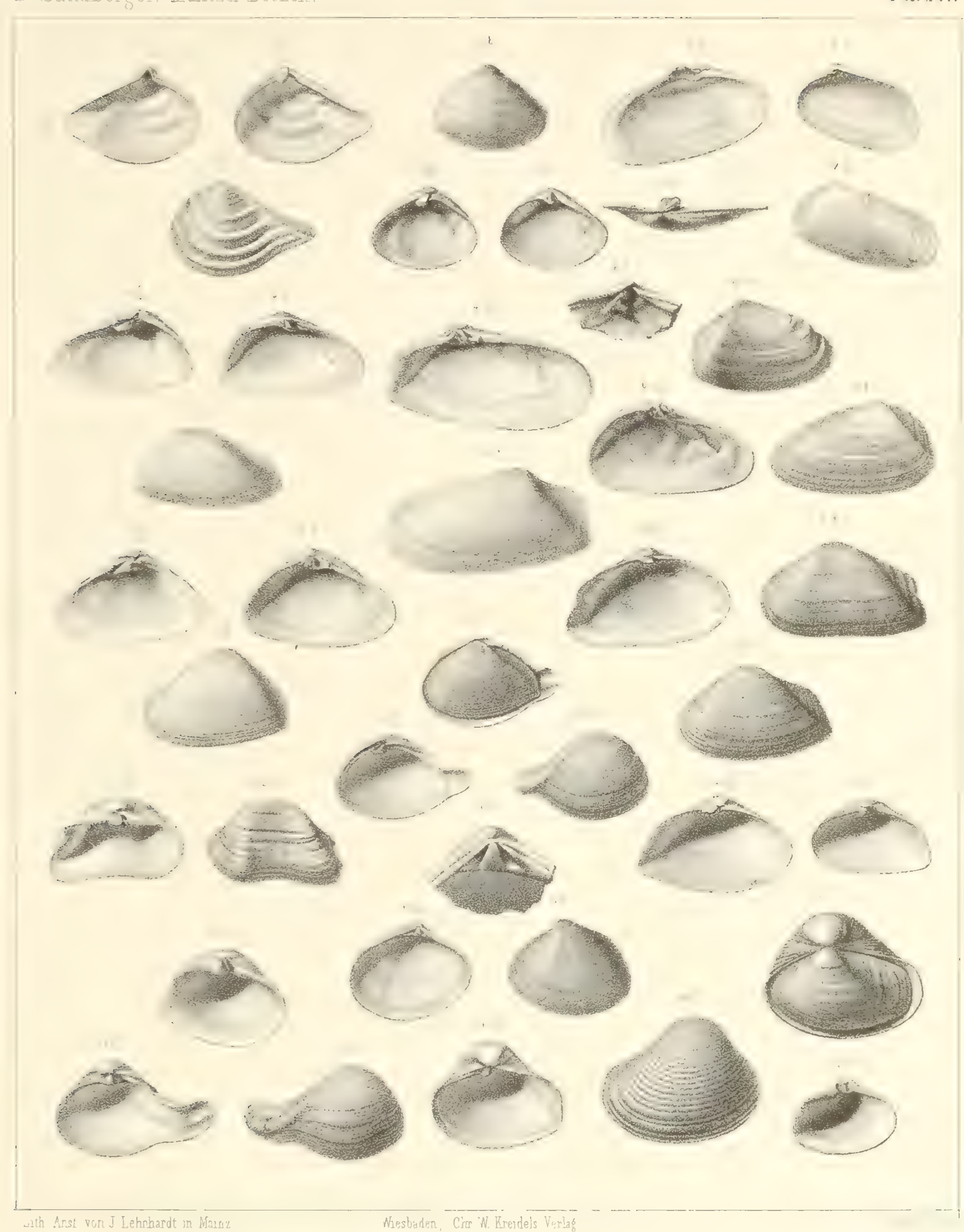




Lith. Anst. v. J. Lehnhardt in Mainz.   Wiesbaden, Chr. W. Kreidels Verlag

1 *Teredo anguinus, Sandb.*
2 *Parapholas subtripartita, id.*
3 *Clavagella latipes, id.*
4 *Thracia faba, Sandb.*
5 *Saxicava crassa, id.*
6
7 *Sandbergeria cancellata*
8



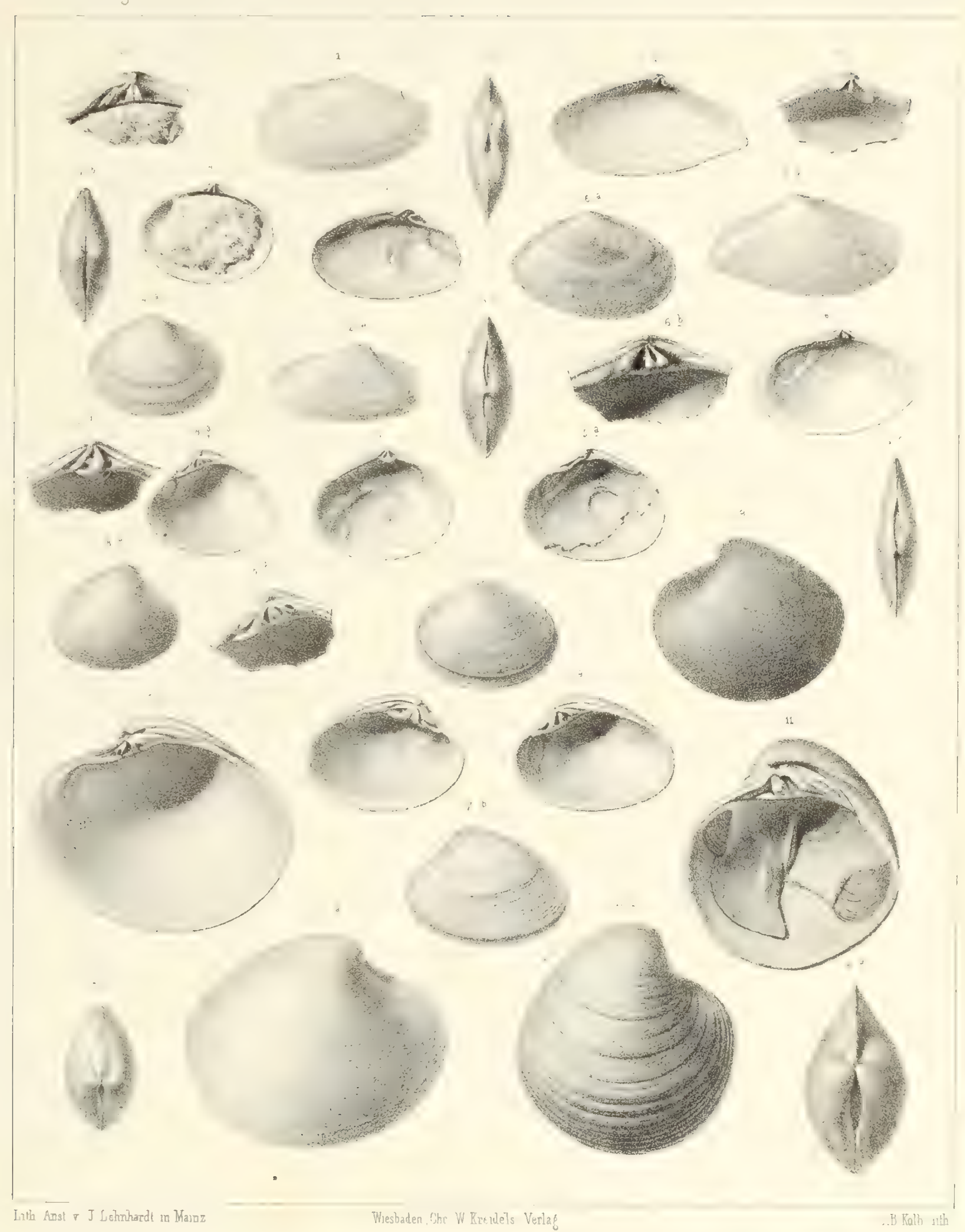


Lith. Anst. von J. Lehnhardt in Mainz

Wiesbaden, Chr. W. Kreidels Verlag

1. *Spheniopsis scalaris, Braun sp.*
2. *Sphenia papyracea, Sandb.*
3. *Corbulomya triangula, Nyst.*
4. ——— *elongata, Sandb.*
5. *Corbulomya nitida, Sandb.*
6. ——— *sphenioides, id.*
7. ——— *crassa, id.*
8. 11 *Corbula subarata, id.*
9. *Mactra fabula, Sandb.*
10. *Corbula longirostris, D*
12. ——— *bijugalis, San*
13.
14.

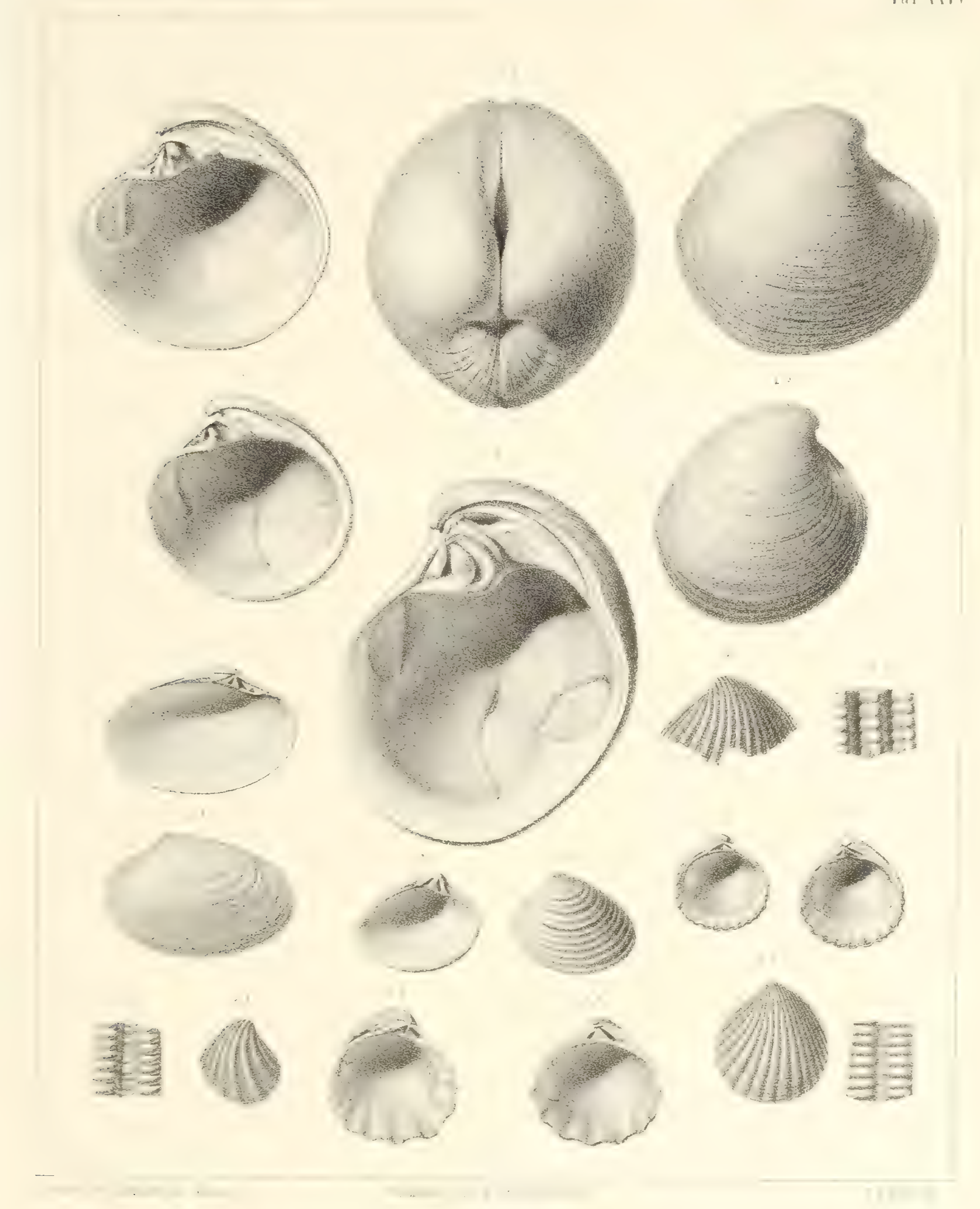




Lith. Anst. v. J. Lehnhardt in Mainz — Wiesbaden, Chr. W. Kreidels Verlag — B. Kolb lith.

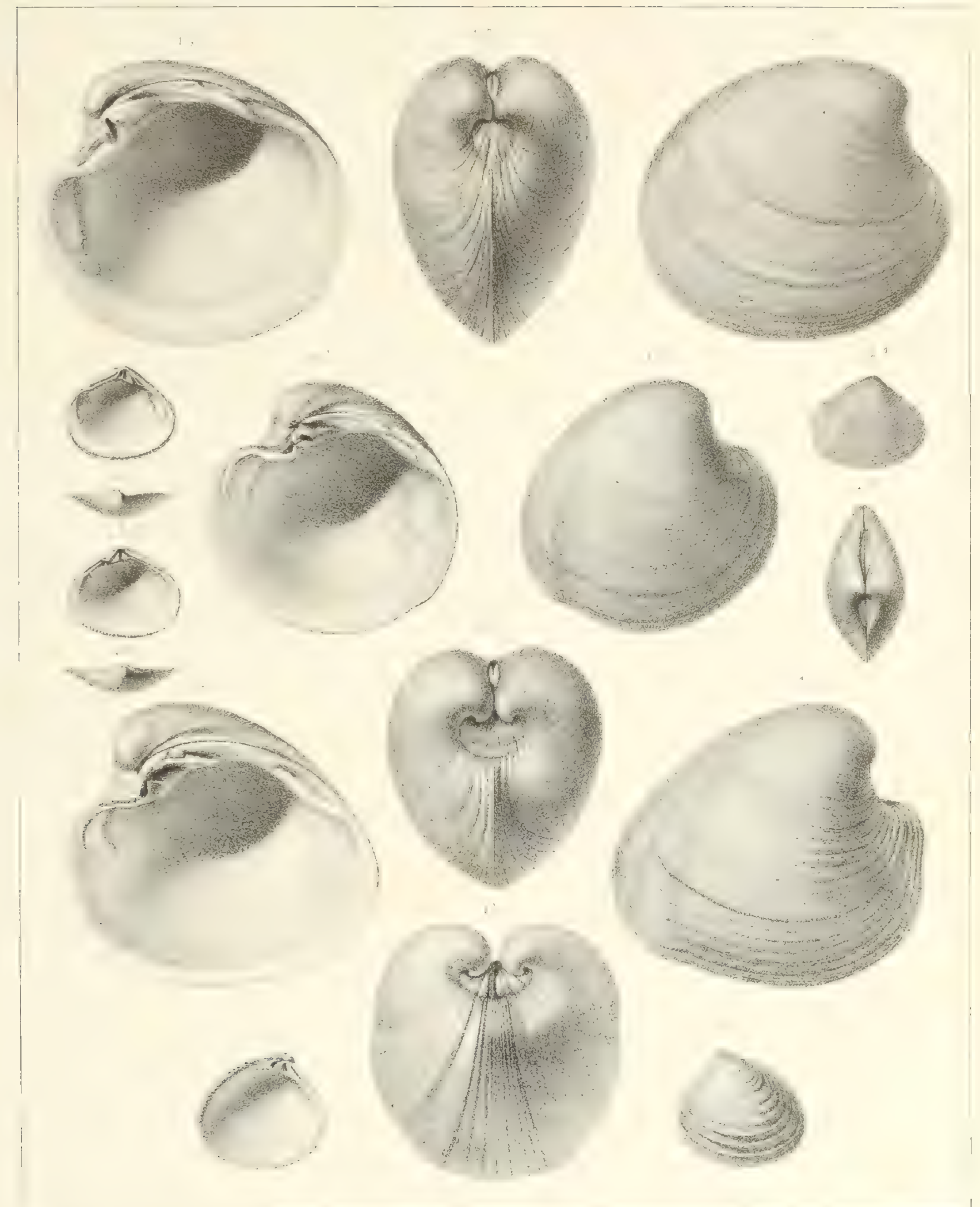
1 Psammobia plana, Desh.
2 Thracia elongata, Sandb.
3 Syndosmya elegans, Desh.
4 Tellina Heberti, Desh.
5 ——— faba, Sandb.
6 ——— Nystii, Desh.
7 Cytherea subarata, Sandb.
8 Cytherea depressa, D
9 10 ——— fragilis
11 ——— incrassata Sow. var.





2 ead var obtusangula, Sandb. Sandb. 5 [illegible] 7 [illegible]
3 ead var solida id 8 [illegible]

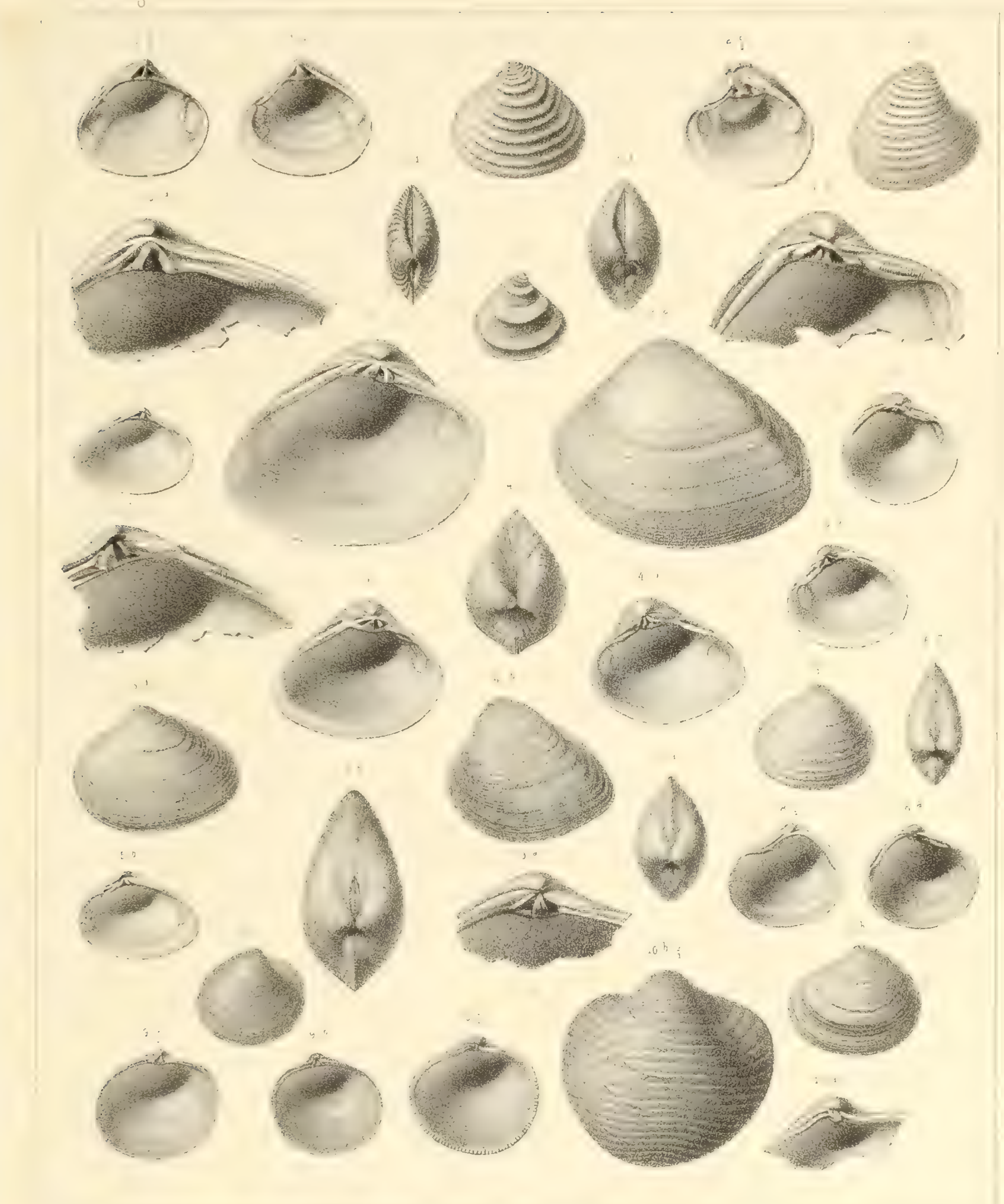




n. Anst. v. J. Lehnhardt in Mainz	Wiesbaden, Chr. W. Kreidels Verlag	J. B. Kolb lith.

Cyprina rotundata. A. Braun
2. Isocardia cyprinoides id.
3. Isocardia subtransversa D'Orb.
[illegible]
Woodia lamellosa Sandb.

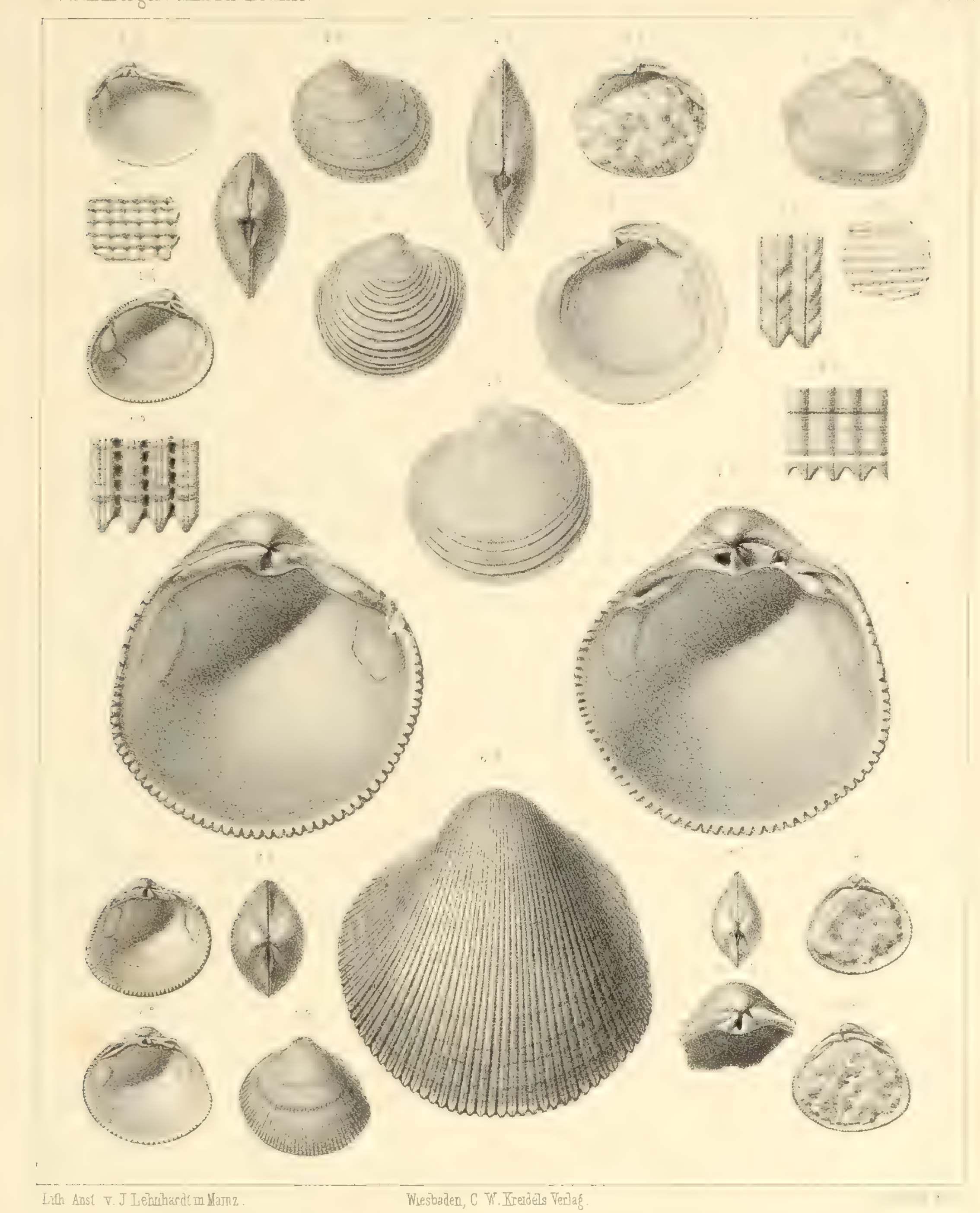




Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Ch. W. Kreidels Verlag. J. B. Kolb, lith.

1. *Astarte plicata*, Merian.
2. ——— *rostrata*, Sandb.
3. 4. *Cyrena semistriata*, Desh.
5. *C. (Corbicula) donacina*, Braun.
6. ——— *Faujasii*, Desh.
7. *Pisidium antiquum*, Braun.
8. *Poronia rosea*, Sandb.
9. *Diplodonta fragilis*, Braun.
10. *Lucina undulata*, Lam.



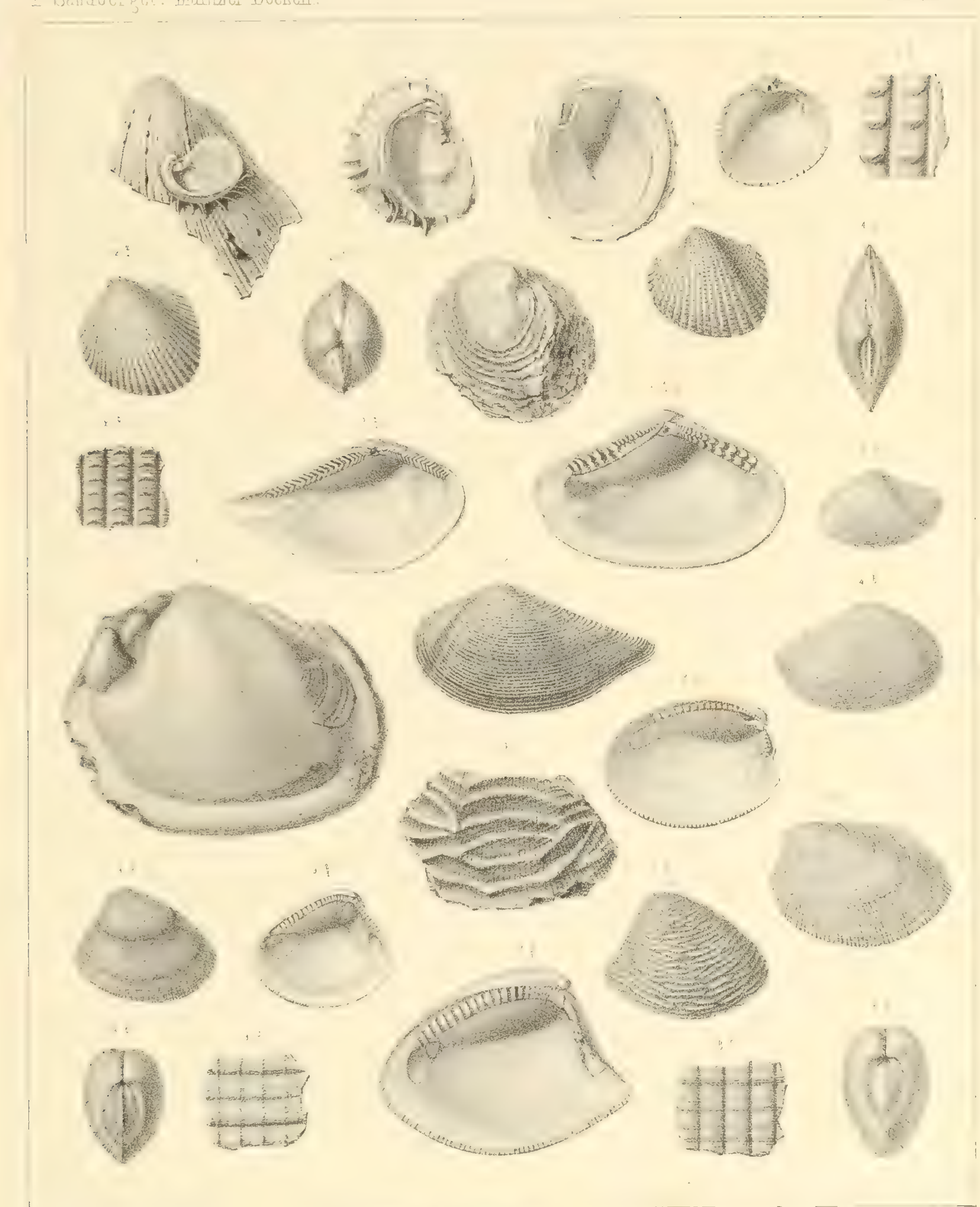


Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, C. W. Kreidels Verlag.

1. *Woodia lamellosa, Sandb.*
2. *Lucina squamosa, Lam.*
3. ——— *Heberti Desh.*
4. *Lucina tenuistria, Héb.*
5.
6. *Cardium anguliferum, S.*
7.

——— *comatulum Bronn.*

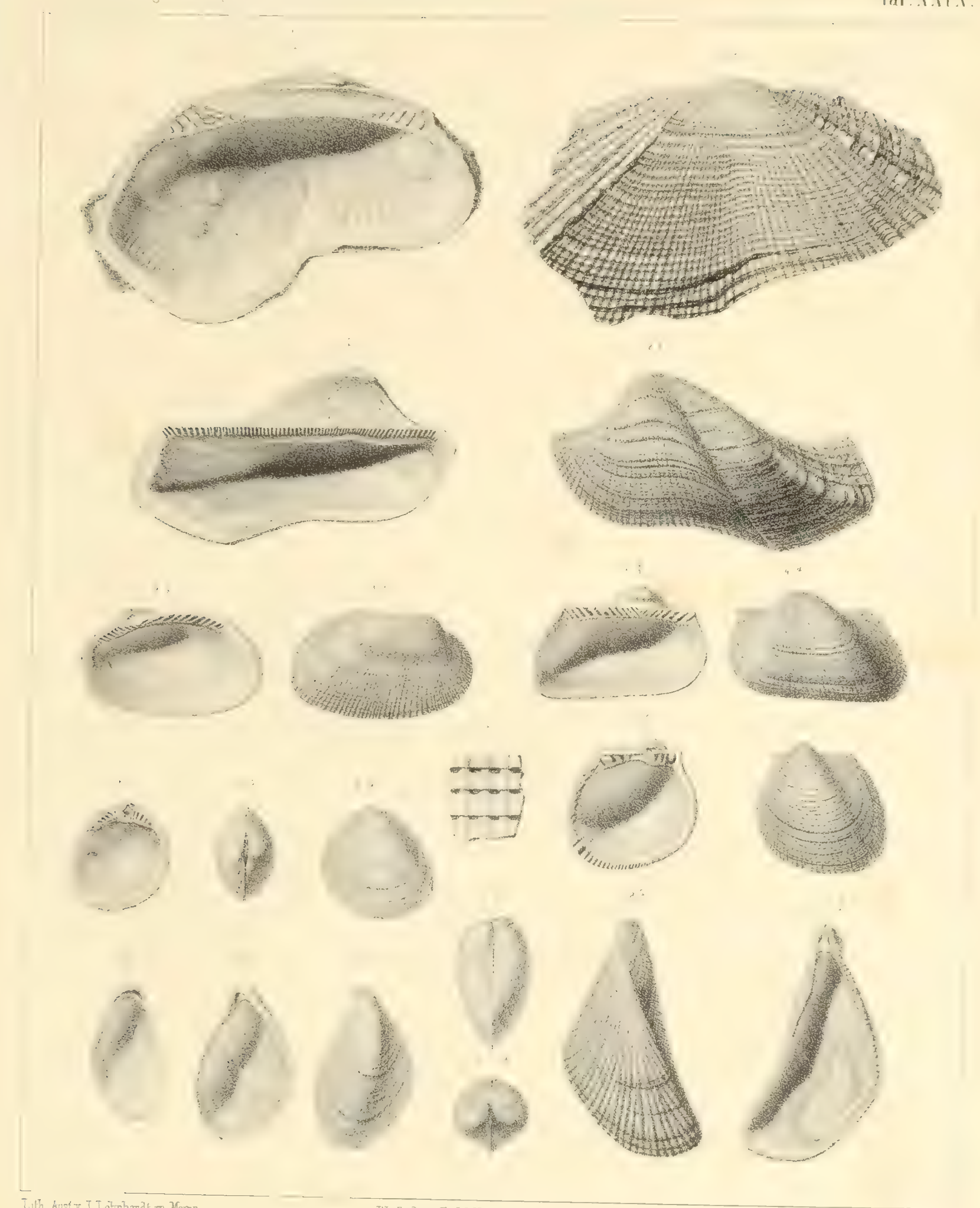




Lith. Anst. v. J. Lehnhardt in Mainz

1. *Chama exogyra, Braun*
2. *Cardium Raulini, Héb.*
3. *——— scobinula, Merian*
4. *Leda Deshayesiana, Duch. sp.*
5. *——— gracilis, Desh.*
6. *Unio pinguis, Sandb.*
7. *Nucula Chastelii, Nyst*
8. *——— Lyelliana, Bosq.*
9. *——— piligera, Sandb.*

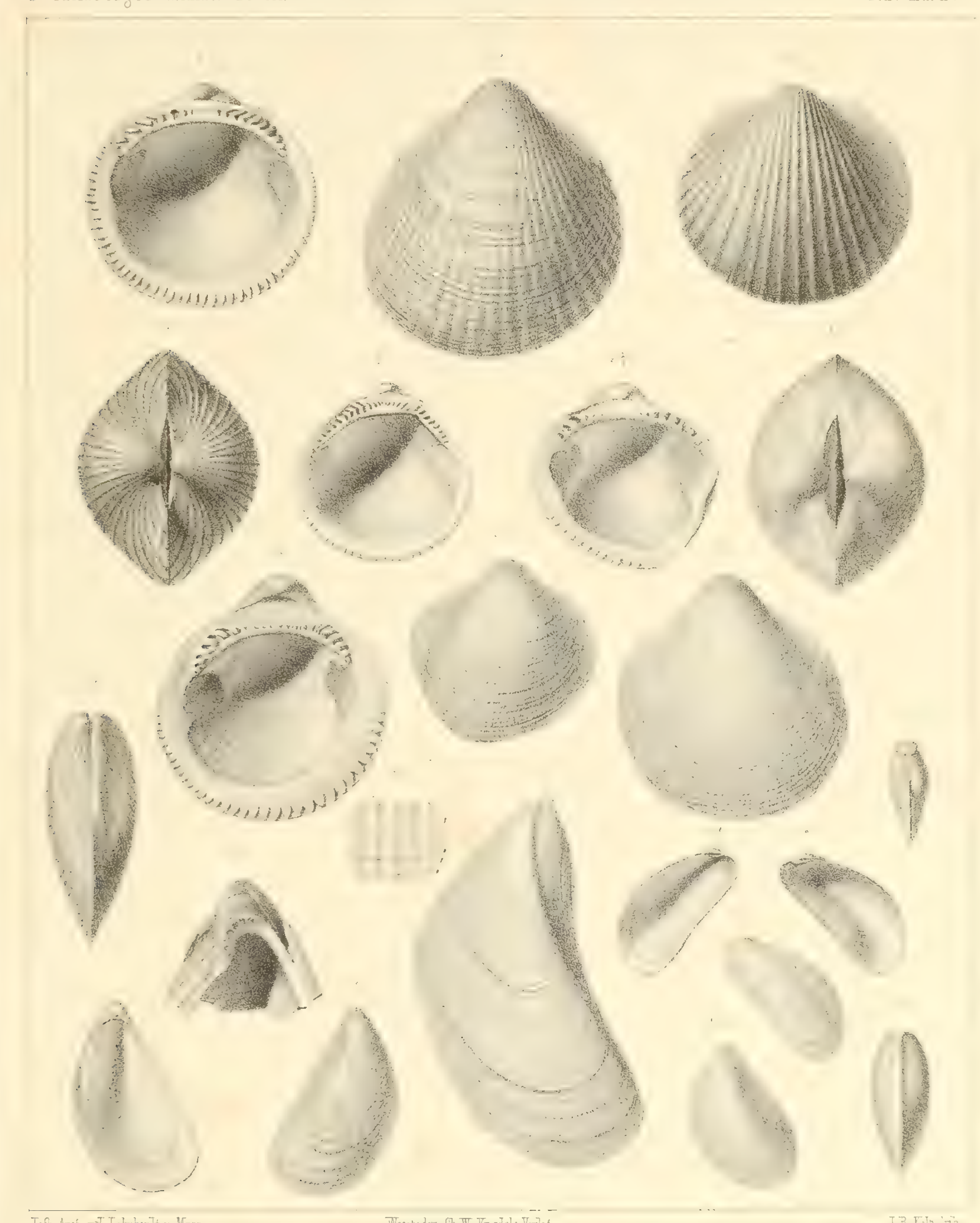




Lith. Anst v. J. Lehnhardt in Mainz. Wiesbaden, Ch. W. Kreidels Verlag. J. B. Kolb lith.

1. *Arca rudis, Desh.*
2. —— *Sandbergeri, id.*
3. —— *decussata, Nyst.*
4. *Arca pretiosa, Desh.*
5. *Limopsis inquidens, Sandb.*
6.
7.
8.

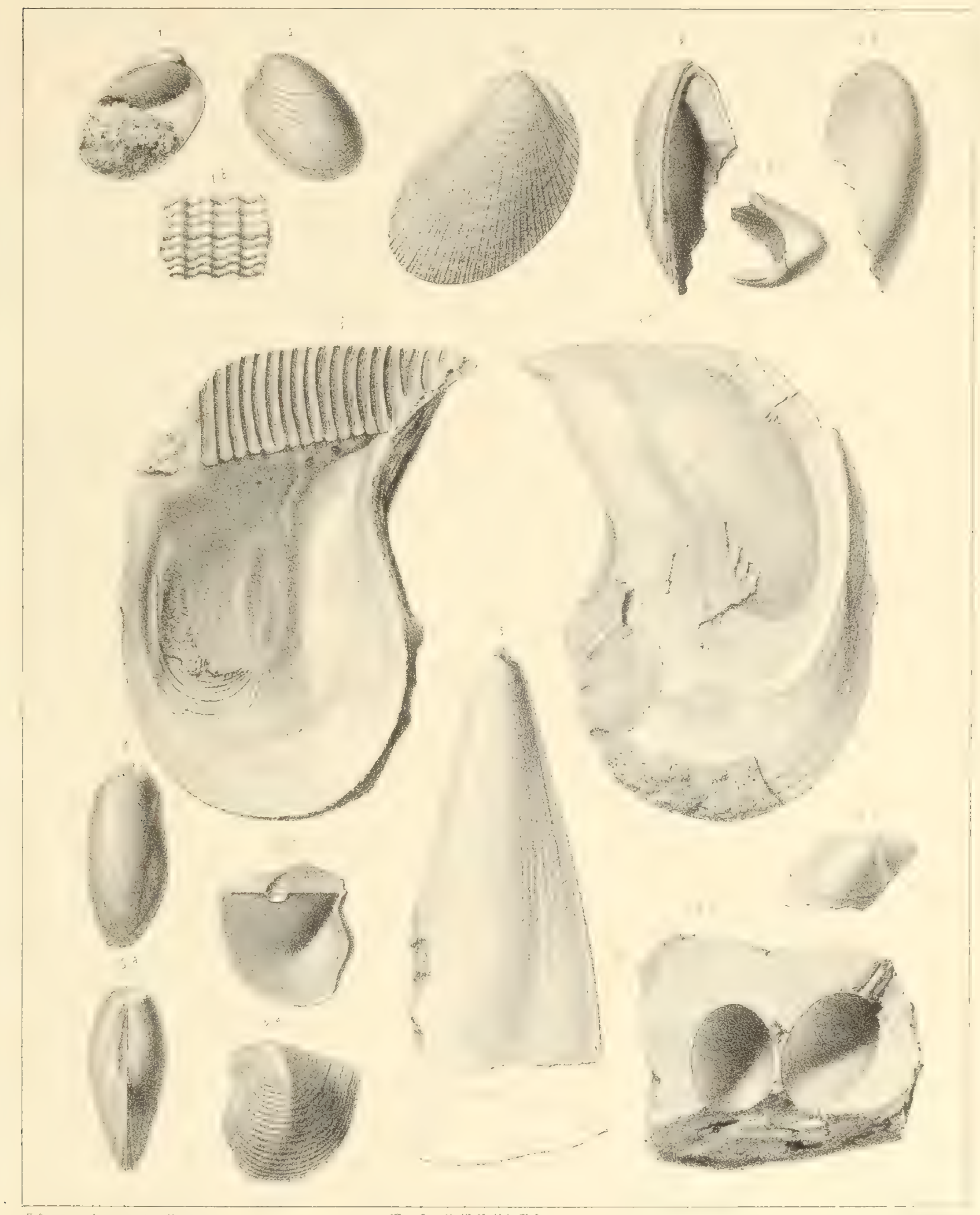




Lith. Anst. v. J. Lehnhardt in Mainz | Wiesbaden, Ch. W. Kreidels Verlag. | J. B. Kolb lith.

1. *Pectunculus angusticostatus, Lam.*
2. *id. var. obliteratus, Desh.*
3. *Pectunculus obovatus, Lam.*
4. *Mytilus acutirostris, Sandb.*
5. *——— Faujasii, Brongn.*
6. *Mytilus socialis, A. Braun.*
7. *Modiola angusta id.*

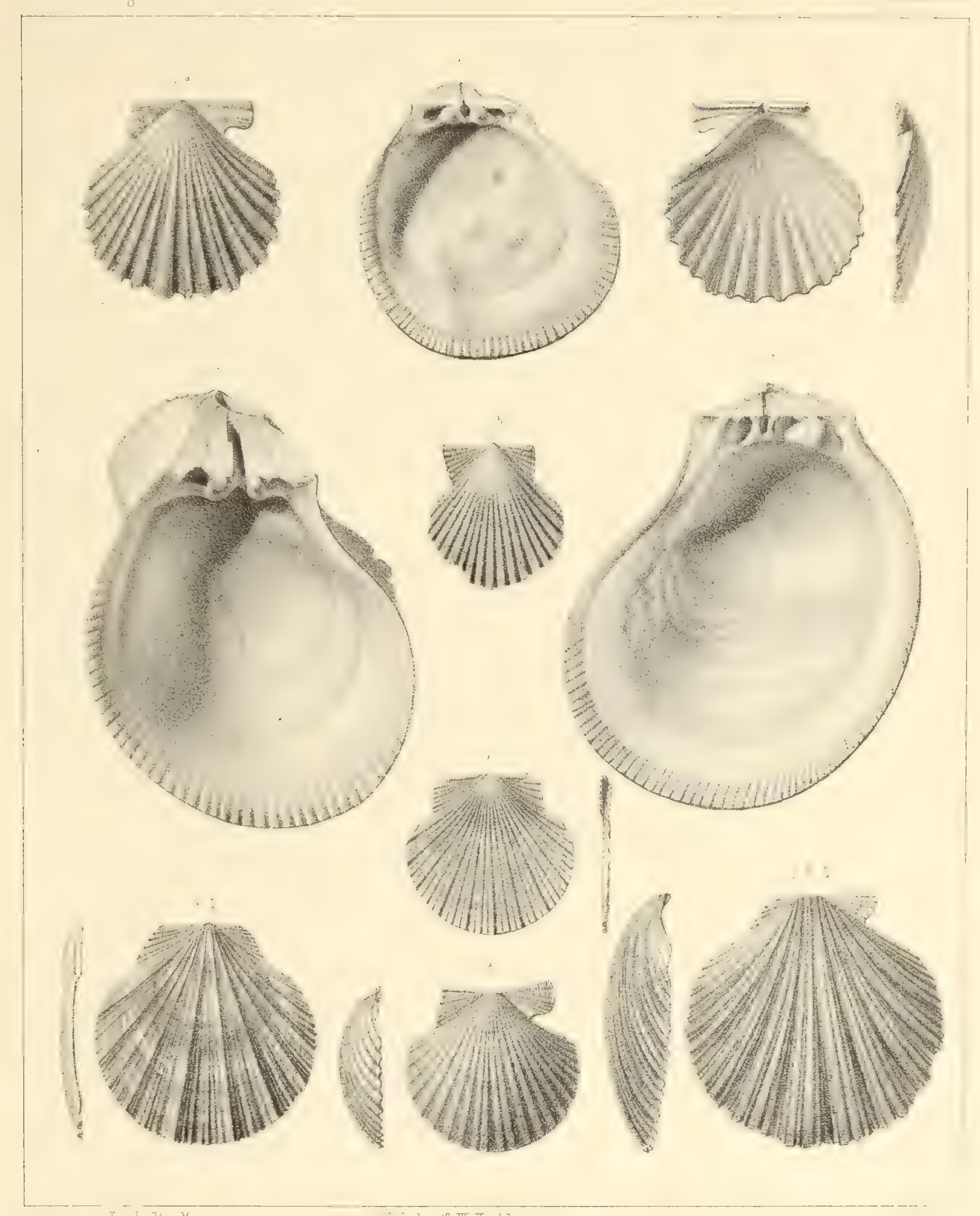




Wiesbaden, Ch. W. Kreidels Verlag.

1. *Modiola micans, Braun.*
2. ——— *Nystii Kickx sp.*
3. *Pinna indeterm.*
4. *Perna Sandbergeri Desh*
5. *Avicula stampinensis id.*
6. *Avicula ecaudata, Sandb.*
7. *Lima Sandbergeri, Desh.*
8.





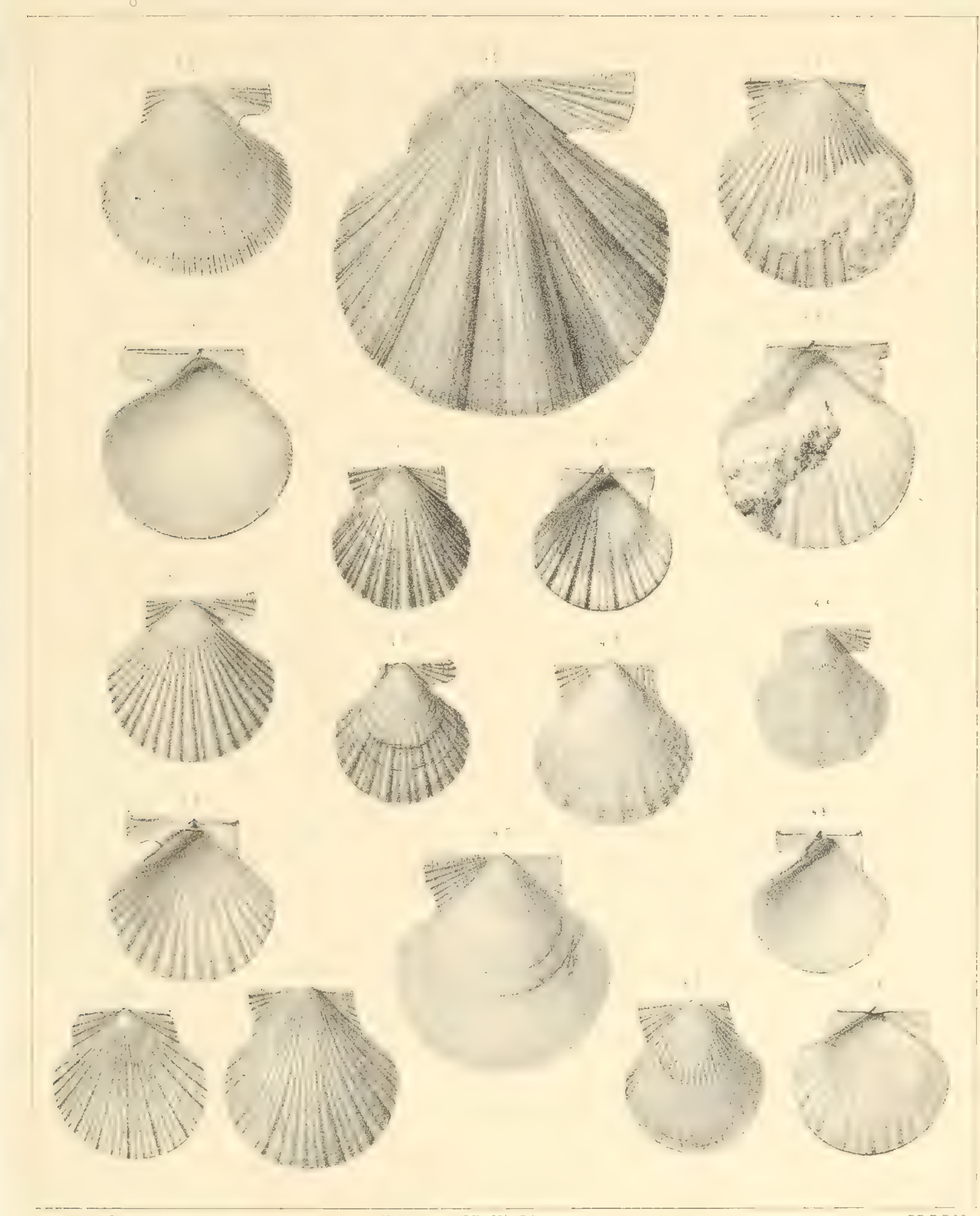
Lehnhardt in Mainz. Wiesbaden. Ch. W. Kreidels Verl.

1. *Spondylus tenuispina, Sandb.*

2. *Pecten Hoeninghausii, Defr.*
3. [illegible] *, Bro.*

4. *Pecten compositus, Goldf.*





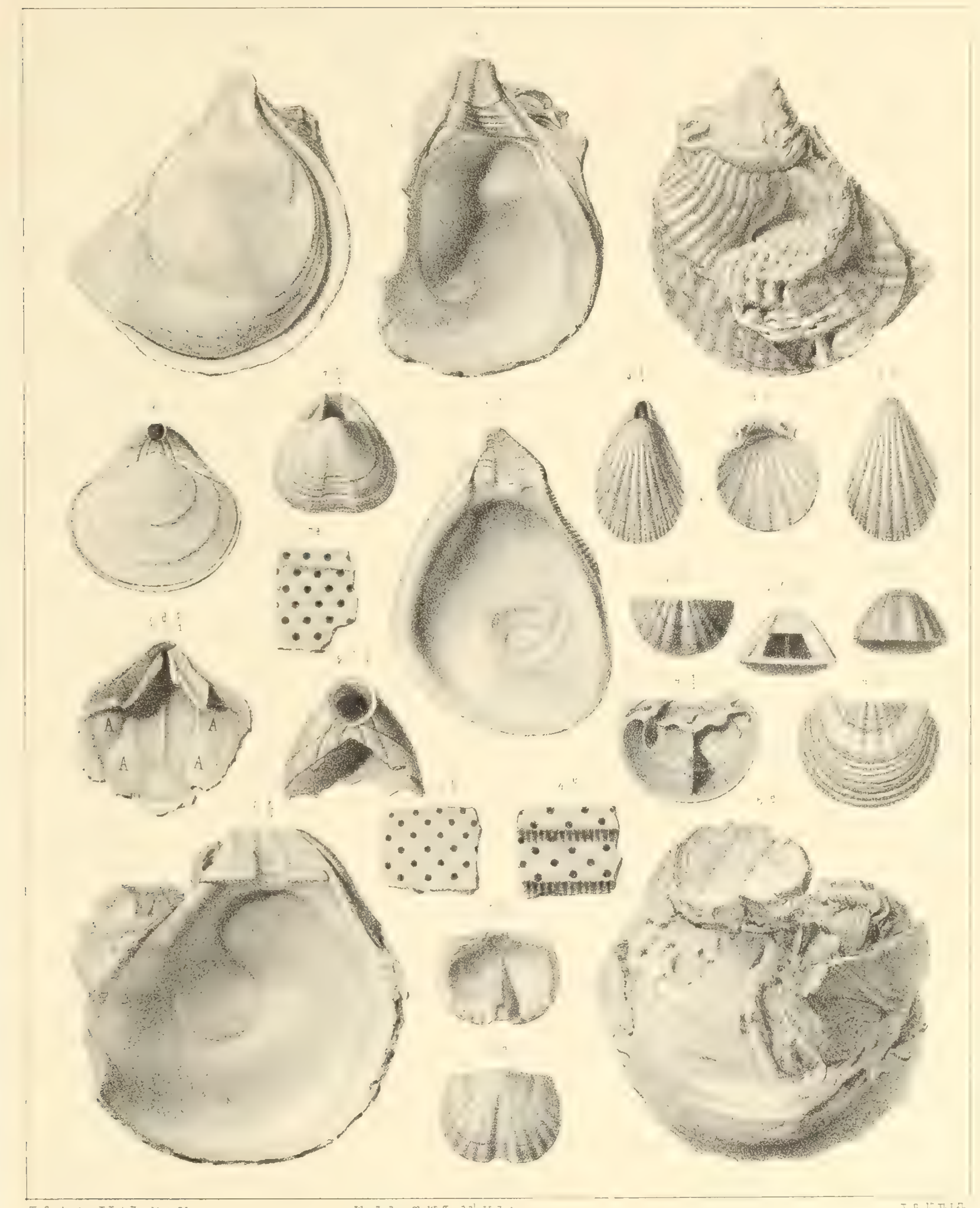
Lith. Anst. v. J. Lehmhardt in Mainz. Wiesbaden, Ch. W. Kreidel's Verlag. J. B. Kolb lith.

1. *Pecten fasciculatus* Sandb.

2. *Pecten decussatus*, v. Münster
3. 4. 6. —— *pictus*, Goldfuss

5. *Pecten inaequalis* Braun var.





Lith. Anst. v. J. Lehnhardt in Mainz   Wiesbaden, Ch. W. Kreidel's Verlag.

1. *Ostrea cyathula, Lam.*
2. *Terebratula opercularis, Sandb.*
3. *Terebratulina fasciculata, Sandb.*
4. *Argiope subradiata, id.*
5. ——— *crenata, id.*
6. *Ostrea callifera Lam.*
7. *Argiope megacephala, Sandb.*





Lith. Anst. v. J. Lehnhardt in Mainz. Wiesbaden, Ch. W. Kreidel's Verlag. J. B. Kolb lith.

A. *Spondylus tenuispina*, Sandb.
1. *Ostrea callifera*,
2. —— *rhenana*, Merian.
3. *Plicatula dispar*, Sandb.
4. *Helix densipapillata*, Sandb.
5. *Glandina splendens*, Braun sp.
6. *Nematura planapicalis*, Sandb.
7. *Pupa cryptodus*, Braun.
8. *Helix colorata*, Braun.
9. —— *costulato-striata*, Greppin.
10. *Pupa alloeodus*, Sandb.
11. —— *subconica* id.
12. *Cyrena concentrica*, id.
13. *Murex areolifer*, Sandb.
14. *Pleurotoma bicingulata*, Sandb.
15. *Clausilia articulata*, id.
16. *Pupa impressa*, id.
17. *Acicula filifera*, id.
18. *Helix euglypha*, Reuss.
19. *Carychium costulatum*, Sandb.
20. *Helix impressa*, id.
21. *Planorbis cordatus*, Sandb.
22. *Paludina succineiformis*, id.
23. *Tiphys pyruloides*, A. Braun.
24. *Cyclostremma rotellaeforme*, Grat.
25. *Turbonilla compressicosta*, Sandb.
26. *Pupa microhelix*, id.
27. *Neritina fluviatilis*, [illegible]
28. *Pleurotomaria amblyconus*, Sandb.
29. *Patella papyracea*, Sandb.
30. *Bulla declivis*, Sandb.









